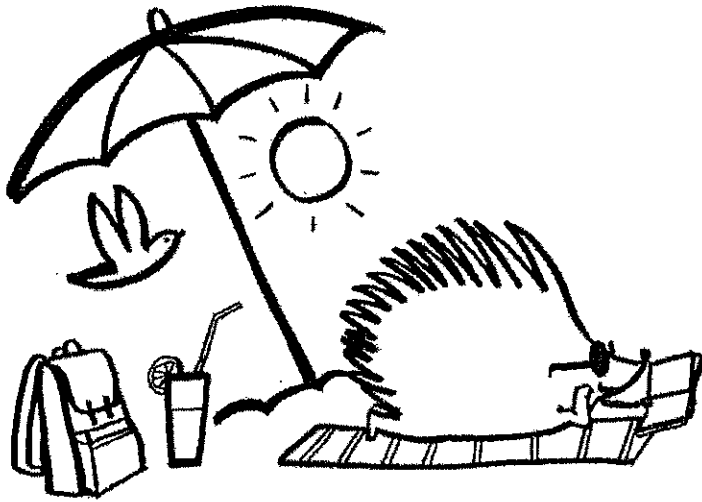


Summer Activity Book



Hillcrest Elementary School

June 17, 2019

Dear Parents,

Congratulations! Your child experienced great success at Hillcrest Elementary School this year! As we look forward to the next school year, we want to ensure that your child is well prepared for another challenging year. Studies have shown that students can lose as much as two months of learning over the summer, often called the summer slide. In order to prevent the summer slide, we encourage your child to engage in a variety of enriching activities over the summer.

To support summer learning, we have created a summer learning booklet. This resource has information for parents, activities, suggested field trips, book recommendations, reading and math practice, and much more. The booklet includes a variety of activities that will support all learning levels. We encourage you to explore the booklet to find activities that interest you and your child. Your child is not expected to complete all activities in the booklet. The booklet serves as a resource to guide your child's summer learning.

Students are encouraged to read every day for at least 20 minutes. This booklet includes parent guides to support reading as well as book recommendations for all reading levels. For more book recommendations, visit the Baltimore County Public Library. Your child does not need a BCPL library card to check out books. Simply provide your child's name and the name of your child's school (Hillcrest Elementary School) and your child can check out books for free. Audiobooks and reading with family members are wonderful ways to make reading fun.

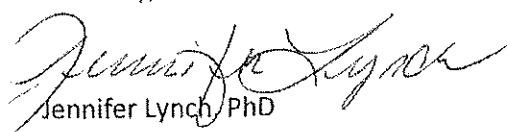
Students are encouraged to practice sight words for 10 minutes each day and math facts for 10 minutes each day. In this booklet you will find sight word lists and activities to guide parents. This booklet also includes addition/subtraction and multiplication/division flash cards. Students may practice their facts on the go by cutting out the flashcards and keeping them in a small container.

We encourage students to write two to three times a week over the summer. Your child can choose from fun journal prompts included in this booklet or write their own letters, journals, and stories. If your child is too young to write, we encourage you to talk to your child about the journal prompts. Your child is never too young to use their imaginations, create wonderful stories, and practice organizing and expressing their thoughts.

Finally, we want your family to HAVE FUN this summer. We have included lists of fun activities, free events, and field trips in the Baltimore Area. Visit www.bcps.org/parents for more interactive resources.

In the beginning of this resource is a tracking form. We are also including a yellow two-sided summer activity card. Your child can earn a ticket to a popsicle party on the first week of school if they bring back the completed yellow activity card. The tracking form is an optional way for you and your child to log your child's activities over the summer. Keep Learning and Have a Great Summer!

Sincerely,



Jennifer Lynch / PhD

Principal, Hillcrest Elementary School

ACTIVITIES

GAMES

OUTINGS

Ten Summer Safety Tips

Here are some tips to help you stay safe this summer:

1. **BACKYARD BASICS:** Always make sure an adult is present, even when having fun in your backyard. Make sure all fences and gates are secure. Have an adult remove any poisonous plants. Do not play around barbecue grills, gasoline containers, pools and spas.



2. **KNOW YOUR NEIGHBORHOOD:** Become familiar with neighborhood play areas. Do not play on any playground equipment that is rusted or broken. Stay away from dangerous surfaces, such as concrete or asphalt. Unacceptable play areas are construction sites, railroad tracks and dumpsters. Do not cross the street alone.

3. **SAFE SWIMMING:** Make sure an adult is present when playing near the water. Pay attention to the water conditions before you go into water. Take swimming lessons to learn how to swim. If your family has a backyard pool, do not dive into the pool unless an adult is present and the depth of the water is greater than six feet.



4. **SAFE CYCLING:** Purchase an approved bicycle helmet. Make sure that you wear your bike helmet just like you wear a seat belt. Make sure you know the traffic rules when it comes to riding your bike.

5. **SUN SAFETY:** Apply sunscreen of SPF 15 or greater 15 to 30 minutes before going out into the sun. Reapply frequently. Dress in light colored fabrics that cover exposed skin such as the head, arms, and legs.



6. WINDOW DANGERS: Unopened windows should be locked at all times. Make sure windows are secure by using window guards. Windows that are open only five inches can be a danger to you. Keep furniture that could be used to climb on away from windows. Keep draperies and window cords out of reach. Have an adult cut long cords and retrofit them with tassels to avoid strangling risks.

7. SAFE CAMPING: Bring first aid supplies and pack essentials like a flashlight, extra food, warm clothing, water, and a compass.

Know ahead of time the location of the nearest working telephone. Never allow anyone to hike alone and map out your hiking trail ahead of time. Bring water on your hike and wear the proper clothing.



8. PREVENT POISONING: Stay away from all plants, mushrooms, and wild berries, unless you are certain they are safe. Learn to identify poison oak and ivy and stay away from it. Keep first aid supplies handy even on short hikes.

9. SAFE SPORTS: Children ages 5 to 14 represent 40% of sports related injuries for all ages. Make sure you have the proper safety equipment when playing any sport. It is recommended that helmets and protective eyewear be worn to minimize injuries.



10. BITES AND STINGS: Apply insect repellent to your clothing and exposed skin. When camping, shake out all clothing before putting it on. Do not disturb or provoke any wild animals or snakes you encounter.

Healthy Summer Snacks

Here are a few quick and healthy summer snacks:

Banana Shake:

- 1 banana cut into slices
- 2 cups of low fat yogurt
- 1 cup of orange juice
- ½ cup of skim milk



Mix all of the ingredients together in a blender and enjoy!

Bugs on a Log: Simply spread peanut butter onto celery stalks, and then top with raisins (the bugs). Yummy!

Frozen Grapes: The entire family will enjoy this cool treat once summer arrives! Place a washed bowl of grapes into the freezer for one hour or so. Don't forget to cut the grapes in half for smaller children and toddlers. Enjoy this chilling treat!



Peanut Butter Squares: Kids will eat just about anything that's covered in peanut butter! Spread peanut butter onto a cracker or rice cake. Add a couple of apple slices then top with another cracker to form a little cracker sandwich.

Freezer Fun: Pour your favorite 100% fruit juice into an ice cube tray and place in the freezer. Once the juice becomes slushy, place a popsicle stick in the middle of each cube. When the juice is frozen, enjoy your home made juice-cicle!



Snackers Delight: Be prepared this summer with a medley of your favorite snacks. Fill each cup of a muffin tin with different snacks such as raisins, cheese cubes, nuts, pretzels, carrot slices and sunflower seeds.



<https://pittsburgh.citymomsblog.com/summer-activities/ultimate-list-100-fun-summer-activities-kids/>

1. Have a picnic at the playground.
2. Kick off your day with donuts and smoothies at the park.
3. Host a cookout.
4. Roast marshmallows over a campfire and make s'mores.
5. Camp out in your backyard.
6. Go for a family bike ride.
7. Have a water gun or water balloon battle.
8. Play shaving cream twister.
9. Play backyard Yahtzee with giant dice and a bucket.
10. Blow bubbles.
11. Play frisbee and kickball.
12. Fly a kite.
13. Play water balloon baseball.
14. Cool off at a free spray park.
15. Place the sprinkler under the trampoline or jump on it with water balloons!
16. Go hiking.
17. Have a nature scavenger hunt.
18. Sit on the ground with your kids and identify the shapes of the clouds.
19. Put on old shoes and go for a stroll in a stream.
20. Pick strawberries at a local farm.
21. Go to a baseball game.
22. Watch a movie at the drive in.
23. Visit the local zoo.
24. Go to a parade.
25. Make a sensory bottle aquarium.
26. Join the Summer Storytime program at your local library.
27. Go to a beach.
28. Spend the day at the pool or waterpark.
29. Go to a carnival or a fair.
30. Visit an amusement park.
31. Take your scooters to a local skate park.
32. Watch a fireworks show.
33. Play a round of mini golf.
34. Watch the sunrise.
35. Build a sandcastle.
36. Make your own tire swing.
37. Turn your slide into a water slide by placing a hose at the top and a baby pool at the bottom!
38. Make water bombs out of sponges.
39. Create your own backyard splash pad!

40. Take a dip in a small pool filled with water balloons.
41. Make goop.
42. Make a pet jellyfish in a jar.
43. Play with soap foam.
44. Make your own cloud dough.
45. Make homemade slime or fish in a bag slime.
46. Play with a shaving cream sensory bin.
47. Cover your slide with shaving cream.
48. Make homemade play dough.
49. Make Moon Sand.
50. Decorate the driveway with sidewalk chalk and have a photoshoot or draw a hopscotch board and play a few games.
51. Whip up homemade aqua sand.
52. Make your own homemade bouncy balls.
53. Make DIY stress balls.
54. Play with sand foam.
55. Perform an easy science experiment by making soap clouds.
56. Create a river out of a rain gutter.
57. Play with the slip n slide and the sprinkler.
58. Have a car wash using ride on toys.
59. Make mud pies and splash in mud puddles.
60. Make homemade ice cream.
61. Buy a popsicle mold and make homemade popsicles.
62. Make milkshakes.
63. Whip up some sand pail pudding.
64. Make pudding pops.
65. Decorate under the sea graham crackers.
66. Make rootbeer floats.
67. Make frozen banana pops.
68. Surprise your kids with jello aquariums or Beach Party Jello Cups.
69. Make banana splits or have a sundae bar.
70. Make slushies or snowcones.
71. Stay hydrated with ocean water.
72. Make homemade iced tea and lemonade.
73. Make homemade ice cream sandwiches.
74. Paint with squirt guns on a canvas.
75. Make thumbprint dandelions or fingerprint flowers.
76. Create pressed flower window gardens.
77. Paint with bubbles!
78. Make an easy foil fish craft with cardboard, foil and permanent markers.
79. Make initial art using painter's tape on a canvas.
80. Create salt fireworks and shaving cream fireworks prints for the 4th of July.
81. Make a bird feeder.
82. Make puffy paint ice cream cones.
83. Whip up your own lip gloss.
84. Create puffy paint sand art.

85. Plant a fairy or a dinosaur garden.
86. Watch a movie in your backyard.
87. Catch lightning bugs.
88. Stargaze with your family.
89. Work a lemonade stand.
90. Have a water bucket relay.
91. Smash water balloon pinatas.
92. Making a shaving cream ball pit in a baby pool.
93. Pittsburgh natives: Visit the water steps, take a stroll along the river and ride the incline.
94. Play "tennis" with (clean) fly swatters and balloons!
95. Build a fort.
96. Paint with colored ice cubes.
97. Play freeze tag, sardines in a can, hide and go seek and flashlight tag.
98. Tie dye a piece of clothing.
99. Enjoy story time, crafting, block play or coloring outside.
100. Have your kids create a Summer Scrapbook by keeping a journal about their favorite Summer activities, and adding mementos and pictures.

SCIENCE FAMILY DAY TRIPS



Division of Family & Community Engagement

Name of Attraction	Address	Phone Number	Subject	Web Site
Anita C. Leight Estuary Center	700 Otter Point Rd. Abingdon, MD 21009	410-612-1688	Environment/biology	otterpointcreek.org
Battle Creek Cyprus Swamp	2880 Grays Rd. Prince Frederick, MD 20678	410-535-5327	Environment/biology	calvertparks.org
Bear Branch Nature Center at the Hashawa Environmental Center	300 John Owings Rd. Westminster, MD 21158	410-386-3580	Environment/biology	cggovernment.carr.org
Calvert Marine Museum	P.O. Box 97 14200 Solomons Island Rd. Solomons, MD 20688	410-326-2042	Oceanography/biology	calvertmarinemuseum.com
Carrie Murray Nature Center	1901 Ridgetop Rd. Baltimore, MD 21207	410-396-0808	Environment/outdoor	carriemurraynaturecenter.org
Cromwell Valley Park	2002 Cromwell Bridge Rd. Baltimore, MD 21234	410-887-2503 410-887-2504	Maryland farming/biology	cromwellvalleypark.org
The Dr. Samuel D. Harris National Museum of Dentistry	31 South Greene St. Baltimore, MD 21201	410-706-0600	Dentistry	dental.umaryland.edu/museum/
Explore and More Hands-On Children's Museum	20 East High St. Gettysburg, PA 17325	717-337-9151	Science experiences	exploreandmore.com
Huber's "Pick Your Own" Farm	11898 Philadelphia Rd. Kingsville, MD 21087	410-538-7725	Farm/agriculture	Facebook.com.KPHubersFarm Bring your own containers
Irvine Nature Center	11201 Garrison Forest Rd. Owings Mills, MD 21117	443-738-9200	Explore nature/biology	explorenature.com
Ladew Topiary Gardens	3535 Jarrettsville Pike Monkton, MD 21111	410-557-9466 410-557-9570	Landscape design/nature	ladewgardens.com
Marshy Point Nature Center	7130 Marshy Point Rd. Baltimore, MD 21220	410-887-2817	Chesapeake Bay biology/environment	marshypoint.org
Maryland Science Center	601 Light St. Baltimore, MD 21217	410-685-2370 410-685-5225	Science displays/activities	mdsci.org
Maryland Zoo in Baltimore	1876 Mansion House Dr. Druid Hill Park Baltimore, MD 21217	410-396-7102	Large & small animals	marylandzoo.org

SCIENCE FAMILY DAY TRIPS

Name of Attraction	Address	Phone Number	Subject	Web Site
NASA/Goddard Space Flight Center	8800 Greenbelt Rd. Greenbelt, MD 20771	301-286-8981	Rockets/satellites	Click here to visit website nasa.gov/goddard
National Air & Space Museum	6 th St. & Independence Ave. Washington, DC 20560	202-633-2214	Space exploration	nasm.si.edu
National Aquarium in Baltimore	501 E. Pratt St. Baltimore, MD 21202	410-576-3800	Aquatic life	aqua.org
National Wildlife Visitor Center	10901 Scarlet Tanager Loop Laurel, MD 20708	301-497-5580	Environment/biology	pwrc.usgs.gov/
Oregon Ridge Nature Center	13555 Beaver Dam Rd. Cockeysville, MD 21030	410-887-1815	Outdoors biology	oregonridgeventurecenter.org
Pickering Creek Audubon Center	11450 Audubon Lane Easton, MD 21601	410-822-4903	Aviary/biology	pickeringcreek.org
Piney Run Park Nature Center	30 Martz Rd. Sykesville, MD 21784	410-795-3274	Outdoors/biology	ccgovernment.carr.org
Plumpton Park Zoo	1416 Telegraph Rd. Route 273 Rising Sun, MD 21911	410-658-6850	Large and small animals	plumptonparkzoo.org
Port Discovery	35 Market Place Baltimore, MD 21202	410-727-8120	Hands-on science activities	portdiscovery.org
The Salisbury Zoo	755 South Park Dr. Salisbury, MD 21802	410-548-3188	Large and small animals	salisburyzoo.org
Soldiers Delight Natural Environment Area	5100 Deer Park Rd. Owings Mills, MD 21117	410-461-5005	Outdoors/environment	dnr2.Maryland.gov/publiclands/Pages/central/soldiersdelight
Weber's Cider Mill Farm	2526 Proctor Lane Parkville, MD 21234	410-668-4488	Cider making	webersfarm.com

SOCIAL STUDIES FAMILY DAY TRIPS



Name of Attraction	Address	Phone Number	Subject	Web Site
Amish Farm	2395 Lincoln Highway East Lancaster, PA 17602	717-394-6185	Economics	Click to visit the sites amishfarmandhouse.com
Antietam National Battlefield	5831 Dunker Church Rd. Sharpsburg, MD 21782	301-432-5124	American History	nps.gov/anti/index.htm
Applewood Farm	4435 Prospect Rd. Whiteford, MD 21160	410-836-1140	Rural Communities	ApplewoodFarm.com
B & O Railroad Museum	901 W. Pratt St. Baltimore, MD 21223	410-752-2490	American History	borail.com
Babe Ruth Birthplace and Museum	216 Emory St. Baltimore, MD 21230	410-727-1539	Baltimore History Economics	baberuthmuseum.org
Sports Legends Museum/Camden Yards	301 W. Camden St. Baltimore, MD 21201	410-727-4808	Maryland Economics History	thebmi.org
Baltimore Museum of Industry	1415 Key Highway Inner Harbor South Baltimore, MD 21230	410-547-0264	Communities in Different Times and Places History	baltimorestreetcar.org
Baltimore Streetcar Museum	1901 Falls Rd. Baltimore, MD 21211	410-216-6180		bdmuseum.maryland.gov
Banneker-Douglass Museum	84 Franklin St. Annapolis, MD 21401	800-735-2258		
Benjamin Banneker Historical Park & Museum	300 Oella Avenue Baltimore, MD 21228	410-887-1081	African American History Colonial Life	baltimorecountymd.gov/Agencies/recreation/countyparks/mostpopular/banneker/index/html
Brad's Produce	550 Asbury Road Churchville, MD 21208	410-734-GROW	Rural Communities	bradsfarmmarket.com
Brunswick Railroad Museum	40 West Potomac St. Brunswick, MD 21716	301-834-7100	History	brunswickmuseum.org
Calvert Marine Museum	14200 Solomon's Island Rd. Solomons, MD 20688	410-326-2042	Maryland Marine History Paleontology	calvertmarinemuseum.com
Carroll County Farm Museum	500 South Center St. Westminster, MD 21157	410-386-3880	Economics	carrollcountymuseum.org

SOCIAL STUDIES FAMILY DAY TRIPS

Name of Attraction	Address	Phone Number	Subject	Web Site
The Chesapeake Children's Museum	25 Silopanna Rd. Annapolis, MD 21403	410-990-1993	Chesapeake Bay	Click to visit the sites theccm.org
Chesapeake Bay Maritime Museum	213 N. Talbot St. St. Michaels, MD 21663	410-745-2916	Where People Start Communities	cbmm.org
Chesapeake Heritage Conservancy:	121 North Union Ave., # C Havre de Grace, MD 21078	410-939-4078	Chesapeake Bay	chesapeake-heritage.org
The Skipjack Martha Lewis Clark's Elfoak Farm	10500 Clarksville Pike Ellicott City, MD 21042	410-730-4049	Rural Communities	clarklandfarm.com
Crisfield Heritage Foundation	3 Ninth St. Crisfield, MD 21817	410-968-2501	Maryland History	crisfieldheritage.org
J. Millard Tawes Historical Museum				
Deep Creek Lake Discovery Center	898 State Park Rd. Swanton, MD 21561	301-387-7067	Natural Resources Fossils	discoverycenterdcl.com
Ellicott City B & O Railroad Station Museum	2711 Maryland Ave. Ellicott City, MD 21043	410-461-1944	Maryland History	howardcountymd.gov/Baltimore-Ohio-Station-at-Ellicott-City
Fire Museum of Maryland	1301 York Rd. Lutherville, MD 21093	410-321-7500	Economics in the Community Archaeology	firemuseum.org
Fort McHenry National Monument and Historic Shrine	2400 E. Fort Ave. Baltimore, MD 21230	410-962-4290	Maryland Colonial Life American History	nps.gov/fome/index.htm
Frederick Douglass Isaac Myers Maritime Park	1417 Thames St. Baltimore, MD 21231	410-685-0295	Maryland State History	livingclassrooms.org/programs/frederick-douglas-isaac-myers-maritime-park/
Glenn L. Martin Maryland Aviation Museum	701 Wilson Point Rd., Suite 531 Baltimore, MD 21220	410-682-6122	Maryland Aviation History	mcdairmuseum.com
Gordon-Roberts House	218 Washington St. Cumberland, MD 21502	301-777-8678	Maryland History	gordon-robertshouse.com
Government House State Circle	110 State Circle Annapolis, MD 21401	410-260-3930	Maryland History	msa.maryland.gov/mas/homepage/html/govhouse.html
Hampton National Historic Site	535 Hampton Lane Towson, MD 21286	410-823-1309	History American History	nps.gov/hamp/index.htm
Hancock's Resolution	2795 Bayside Beach Rd. Pasadena, MD 21122	410-255-4048	Maryland History Colonial Life	historichancockresolution.org

SOCIAL STUDIES FAMILY DAY TRIPS

Name of Attraction	Address	Phone Number	Subject	Web Site
Hands-On Children's Museum	20 East High St. Gettysburg, PA 17325	717-337-9151	History	Click to visit the sites exploreandmore.com
Havre de Grace Maritime Museum	100 Lafayette St. Havre de Grace, MD 21078	410-939-4800	Maryland Maritime History	hdmartimuseum.org
The Hays House Museum	324 Kenmore Ave. Bel Air, MD 21014	410-838-7691	Maryland History	harfordhistory.org/collections/
Baltimore Heritage Inc.	11 1/2 West Chase Street Baltimore, MD 21201	410-332-9992	Maryland History	baltimoreheritage.org/events/
Herr's Foods, Inc.	20 Herr Dr. Routes 1 and 272 Nottingham, PA 19362	800-63-snack	Economics	herrs.com
Historic Annapolis Foundation	99 Main Street Annapolis, MD 21401	800-603-4020, ext. 4538 or 410-990-4538	Maryland History	annapolis.org
Historic Elk Landing Foundation	590 Landing Lane Elkton, MD 21922	410-620-6400	Maryland History Colonial Life	discoverourtown.com/MD/Elkton/ Attractions/historic-elk-landing/ historiclondontown.org
Historic London Town and Gardens	839 Londontown Rd. Edgewater, MD 21037	410-222-1919	Archaeology Colonial Life	hsmcdigshistory.org
Historic Saint Mary's City	23115 Leonard Hall Dr. Leonardtown, MD 20650	800-327-9023 301-475-4200, ext. 1404	Maryland Settlement Ideas for places to visit: The State House, Civil War Museum, Old Jail Museum, St. Clement Island Potomac River Museum, Sotterley Plantation and Piney Point Lighthouse Museum and Park.	
Historical Society of Baltimore County House and Farm Museum	9811 Van Buren Lane Cockeysville, MD 21030	410-666-1878	American History	hsobc.org
Historical Society of Frederick County Museum and Library	24 East Church St, Frederick, MD 21701	301-663-1188	Maryland History Then and Now	frederickhistory.org
Historical Society of Talbot County	25 South Washington St. Easton, MD 21601	410-822-0773	Maryland Maritime History	talbothistory.org
The Howard County Living Farm Heritage Museum	12985 Frederick Rd. West Friendship, MD 21794	410-489-2345	Rural Communities Maryland History	farmheritage.org

SOCIAL STUDIES FAMILY DAY TRIPS

Name of Attraction	Address	Phone Number	Subject	Web Site
Irvine Nature Center	11201 Garrison Forest Rd. Owings Mills, MD 21117	443-738-9200	Native Americans Maryland Communities	Click to visit the sites explorenature.org
Jefferson Patterson Park and Museum, State Museum of Archaeology	10515 Mackall Road St. Leonard, MD 20685	410-586-8501	Maryland History Archaeology	jefpat.org
Jerusalem Mill and Village	2800A Jerusalem Rd. Kingsville, MD 21087	410-877-3560	Where People Start Communities	jerusalemill.org
The Maryland Historical Society and Fells Point Maritime Museum	201 West Monument St. Baltimore MD 21201	410-685-3750	Maryland Colonial Life Maryland State History	mdhs.org
Maryland State House	91 State House Circle Annapolis, MD 21401	410-974-3400	Maryland Government	msa.maryland.gov/msa/
Montgomery County Historical Society	111 West Montgomery Ave. Rockville, MD 20850	301-340-2825	American Government Then and Now	mdstatehouse/html/home.html
Montpelier Mansion	9650 Muirkirk Road Laurel, MD 20708	301-377-7817	Maryland Early History Maryland Colonial History	montgomeryhistory.org
Mount Clare Museum House	1500 Washington Blvd. Baltimore, MD 21230	410-837-3262	Maryland Colonial History	pgparks.com/3044/Montpelier-Mansion-Historic-Site
National Cryptologic Museum	Adjacent to NSA Headquarters, Ft. George G. Meade, MD	301-688-5849	Government Security	mountclare.org
National Great Blacks in Wax Museum	1601-03 East North Ave. Baltimore, MD 21213	410-563-3404	African American History	nsa.gov
Oregon Ridge Nature Center	13555 Beaver Dam Rd. Cockeysville, MD 21030	410-887-1815	Maple Sugaring Native American History	baltimore.org/listings/art-museums-galleries/national-great-blacks-wax-museum
Oriole Park at Camden Yards	333 West Camden St. Baltimore, MD 21201	410-547-6234	Baltimore History	oregonmidgenaturecenter.org
Piney Point Lighthouse Museum and Historic Park	44720 Lighthouse Rd. Piney Point, MD20674	301-994-1471	Maryland Maritime History	mlb.com/orioles/ballpark
Port Discovery – The Children’s Museum	35 Market Place Baltimore, MD 21202	410-727-8120	World near and far	visitsmarysmd.com/site/detail/piney-point-lighthouse-museum-and-historic-park
Pride of Baltimore, Inc.	410 E. Pratt St., Suite 222 Baltimore, MD 21202	410-539-1151	Maryland Maritime Colonial History	portdiscovery.org pride2.org

SOCIAL STUDIES FAMILY DAY TRIPS

Name of Attraction	Address	Phone Number	Subject	Web Site
Reginald F. Lewis Museum	830 E. Pratt St. Baltimore, MD 21202	443-263-1800	American History	lewismuseum.org Click to visit the sites
Robert Long House and Garden	812 S. Ann St. Baltimore, MD 21231	410-675-6750	Baltimore, Maryland History	preservationsociety.com
Rock Run Grist Mill	Susquehanna State Park 422 Wilkinson Rd. Havre de Grace, MD 21078	410-557-7994 1-888-432-2267	History and Nature	dnrmaryland.gov/publiclands/Pages/central/SusquehannaRock-Run.aspx
Rose Hill Manor and Children's Park	1611 N. Market St. Frederick, MD 21701	301-600-1646	Then and Now Maryland History	recreator.com/404/Rose-Hill-Manor-Park-Museums
Smithsonian Environmental Research Center	647 Contees Wharf Rd. Edgewater, MD 21037	443-482-2200	Natural Resources Chesapeake Bay	serc.si.edu
Sotterley Plantation	44300 Sotterley Lane Hollywood, MD 20636	301-373-2280	Maryland History American History	sotterley.org/wp-content/cache/swift-performance
Star-Spangled Banner Flag House and Museum	844 East Pratt St. Baltimore, MD 21202	410-837-1793	Maryland History American History	flaghouse.org
Steppingstone Museum	461 Quaker Bottom Rd. Havre de Grace, MD 21078	410-939-2299	Colonial Life	steppingstonemuseum.org
Thrasher Carriage Museum	19 Depot St. Frostburg, MD 21502	301-689-3380	Economics	thetrashercarriagemuseum.com
Todd's Inheritance Historic Site, Inc.	9000 North Point Rd. Edgemere, MD 21219	410-477-5000	History	visitmaryland.org/listing/historic-homes/todd's-inheritance-historic-site
Top of the World Observation Level World Trade Center	401 E. Pratt St., 27 th Floor Baltimore, MD 21202	410-837-8439	Social Studies	viewbaltimore.org
Union Mills Homestead	3311 Littlestown Pike Westminster, MD 21158	410-848-2288	History	unionmills.org
United States Naval Academy	52 King George St. Annapolis, MD 21402	410-293-8687	Government	usna.edu
USS Constellation Museum	Pier 1, 301 East Pratt St. Baltimore, MD 21202	410-539-1797	Maryland History	historicships.org
Walnut Springs Farm	3910 Blue Ball Rd. Elkton, MD 21921	410-398-9150	K-5 / Communities	strawberryfarm.com
The Walters Art Museum	600 N. Charles St. Baltimore, MD 21201	410-547-9000	Grades 2-5	thewalters.org

SOCIAL STUDIES FAMILY DAY TRIPS

Name of Attraction	Address	Phone Number	Subject	Web Site
War of 1812 – North Point Battlefield Tours	Ft. Howard, MD 21052	410-477-0757	Grade 5	Click to visit the sites dnr.maryland.gov/publiclands/Pages/central/NorthPointBattlefield
Washington Monument and Museum at Mount Vernon Place	699 N. Charles St. Baltimore, MD 21201	410-396-1049	Grades 3-5	mvpconservancy.org
Western Maryland Railway Station	13 Canal St. Cumberland, MD 21502	301-724-3655 800-989-9394	Maryland History	wmrs.com
Wye Grist Mill	14296 Old Wye Mills Rd. Wye Mills, MD 21679	410-827-3850	Grades 4-5	tourtalbot.org/business/wye-grist-mill/

Fun Free Things to Do in Baltimore

1. Enjoy interactive and educational family concerts with the Baltimore Symphony Orchestra.
2. At the Baltimore Museum of Art, admission is free everyday. Use the family activity booklets in the African, American and Modern galleries. Take an audio guided tour of 20 items of special interest to kids. Participate in Free Family Sundays (2pm-5pm), with hands-on art-making workshops.
3. Visit the Carrie Murray Nature Center and get up close and personal with rescued raptors, tortoises and insects. Located within Gwynns Falls Leakin Park, the 3rd largest urban wilderness park in the U.S., the nature center is free to visit — some activities require a small fee.
4. Get wet and stay cool in the summertime in the 53 interactive jets of the Walter Sondheim Fountain in West Shore Park on the Baltimore Waterfront. West Shore park features a “great lawn” that provides fun, family-friendly opportunities at the harbor.
5. Visit the Frederick Douglass-Isaac Myers Maritime Museum in Fell’s Point or picnic while enjoying beautiful views of the harbor at Canton Waterfront Park.
6. Check out Fort McHenry, the place where American troops stopped a British invasion during the War of 1812 and also inspired our national anthem. Listen to a ranger talk. Watch weekend drill, musket and artillery demonstrations.
7. Stop by Pierce’s Park near Waterfront’s Pier 5. Children can climb on locally created sculptures, interact with a musical fence, and play in a living willow tunnel (all free). This sustainable park also offers free wireless internet access courtesy of the Pier 5 Hotel.
8. Enjoy a month of free cultural programming every October with Free Fall Baltimore.
9. Chill out while the kids play by the lake at Patterson Park, a beautiful inner-city green space. Climb to the top of the park’s iconic pagoda to get a bird’s eye view of the city or go ice skating at the Dominic “Mimi” DiPietro Family Skating Center.
10. Watch a free family movie outdoors during the American Visionary Arts Museum’s “Flicks from the Hill” series on Thursdays during July and August. The natural amphitheater of the Hughes Family Outdoor Theater on Federal Hill seats

more than a thousand people with a great view of the 30-foot wide screen and the lights of the city. The museum is also open and free from 5pm to 9pm on movie nights.

11. Watch street performers—musicians, singers, magicians, dancers, jugglers—free at the Harborplace Amphitheater between the Harborplace Pavilions. In the summer, a variety of bands give free concerts on Friday, Saturday and Sunday evenings.

12. Bike or hike along the 15-mile Gwynns Falls Trail, a continuous recreation corridor connecting parks, environmental areas, historic landmarks and more than 30 neighborhoods in west and southwest Baltimore.

13. Lunch with the ducks in the Harry & Jeanette Weinberg Waterfront Park, a Certified Wildlife Habitat just outside of the National Aquarium. The area provides wildlife with food, water, shelter, and a place to raise their young — see a map of naturally occurring species sightings here.

14. Take a guided walking tour of cool historic sites on the Heritage Walk, the city's oldest urban trail. Meet your guide at the Baltimore Visitors Center at the Inner Harbor. The three-mile walk passes 20 historic sites and museums. Children 12 and under are free; adults \$10; seniors/military/students with ID, \$7.

15. Watch fudge being made by workers who sing and dance at The Fudgery, located at 301 Light Street near the harbor.

16. Learn to be a powder monkey on the historic *USS Constellation* in Baltimore Harbor. During the Civil War young boys carried powder to the guns on fighting ships. Today's youngsters (six years and older) can experience what life on the ship was like.

17. Stargaze for free on Fridays from 5:30pm to 9pm at the observatory in the Maryland Science Center.

18. See a tall ship, lightship, warship and submarine in the Inner Harbor. Historic Ships in Baltimore charges a fee to explore the historic vessels, but you can ogle them for free, along with any visiting tall ships and yachts.

Bonus: okay, the Maryland Zoo isn't free—or particularly cheap—but there are so many cool family friendly activities that it's worth a splurge for one of the special events for kids. If your family really enjoys the zoo, you may want to consider becoming a member.

10 Free Things to Do Around Baltimore When Kids Say 'I'm Bored!'



Judy Colbert
Nov. 30, 2017

Although television, computers, smartphones, and other electronics would seem to be full-time activities for youngsters, they will inevitably come up for air long enough to say “I’m bored!” What to do? Whether you’re a parent, babysitter, or nanny, someone has to come up with an idea. Preferably, it won’t cost a thing, and it will stimulate the child’s imagination. You can always bring out the box of elbow noodles and watercolor paints to make a collage, find a new or favorite book at the library, tour the deck of the Pride of Baltimore 2, or go sightseeing on the Charm City Circulator bus, but there are many other options in Baltimore. Here are 10 suggestions for free fun, and at least one should be perfect for your family.

Baltimore City Police Museum

Address: 601 E. Fayette St., Baltimore, MD 21202

Hours: Friday, 10 a.m. - 2 p.m. | Saturday, noon to 3 p.m. by appointment only | Groups and visitors may also schedule a visit by completing an online request.

This museum is new as of Spring 2017, so there’s a good chance you and your children haven’t seen it yet. Baltimore has the eighth-largest police force in the country, with 3,100 civilian and sworn personnel, and it has been in existence since 1784. The museum lets you see some of the force’s 200+ year history through photos, documents, uniforms, badges, guns, polygraph machines, cell blocks, and other

memorabilia. Visitors can walk into an old cell block, stand in front of a lineup, and use smartphones to hear more information by scanning a QR code. The museum is on the ground floor of the Bishop L. Robinson Sr. Police Administration Building.

Flicks From the Hill at the American Visionary Arts Museum

Address: 800 Key Highway, Baltimore, MD 21230

Hours: Pre-movie events, 5 p.m. - 9 p.m. | Movie, 9 p.m.

Phone: 410-244-1900

Lots of places around Baltimore offer a free family movie during the summer. The American Visionary Art Museum has several bonuses to their film offerings. Arrive early, starting at 5 p.m., and you'll have free admission to the museum. A selection of free or low-cost pre-movie programs are offered, including a bike ride, yoga, kickboxing, Pilates, etc. The movies are shown at 9 p.m. on Thursday night at the Hughes Family Outdoor Theater on the eastern slope of Federal Hill. (The downtown view is another bonus!) Among the movies shown in 2017 -- selected to complement the current exhibit "Yummm!" -- are "Willy Wonka and the Chocolate Factory" (1971), "Julie and Julia," and "E.T.: The Extra-Terrestrial." In case of rain, the movie is shown indoors in the Jim Rouse Visionary Center. Light fare from local restaurants, beer, and music are available in the Sculpture Barn for an additional fee.

Baltimore Museum of Art

Address: 10 Art Museum Drive, Baltimore, MD 21218

Hours: Wednesday - Sunday, 10 a.m. - 5 p.m. | Free Family Sunday, 2 p.m. - 5 p.m.

Phone: 443-573-1700

The BMA is free, except for some special exhibits and events, so there's plenty to see and do on a regular basis. Never taken a child to an art museum? Prepare to have fun. Look at the paintings and ask your child to tell you what's happening. Ask the child to mimic the poses of the people in the painting. Another great option, of course, is to participate in the many organized art programs created for children. Free Family Sunday may find you exploring your creative side with such hands-on projects as sculpting a silver tea service, building Baltimore furniture, sewing American portraits, making a hat, or making black and white prints. Family activity guides are available in the African, Modern, and American galleries.

Walters Art Museum

Address: 600 N. Charles St., Baltimore, MD 21201

Hours: Wednesday - Sunday, 10 a.m. - 5 p.m. (Extended hours on Thursday until 9 p.m.)

Phone: 410-547-9000

The Walters Art Museum, the home of another of Baltimore's great art collections, is always free -- except for some special exhibitions and programs. There's something intriguing and unexpected well beyond "art" at this museum, so you can explore how art and life merge. The museum offers a ton of family art programs that include creating your own art, live performances, checking activities in the child-friendly Family Guide, or playing dress-up. Drop-in art activities are scheduled on weekends. Programs are available for children from newborns to 23 months and beyond. Find self-guided exploration activities on the museum's [Mobile Guide](#).

Walter Sondheim Fountain

Address: West Shore Park, 400 to 500 block of Light Street, Baltimore, MD 21202

Hours: Open daily in summer, 10 a.m. - 10 p.m.

Between the Maryland Science Center (additional fee) and the Baltimore Visitor Center (always free) is the Walter Sondheim Fountain with 53 interactive water jets for kids to run through. Don a bathing suit or have more fun by running through the water sprays in your clothes. Parents can let the kids play while relaxing at the tables under umbrellas. Be sure to bring sunblock, a towel, and a change of clothes for anyone who's getting wet -- including yourself!

Cylburn Arboretum

Address: 4915 Greenspring Ave., Baltimore, MD 21209

Hours: Arboretum, Tuesday - Sunday, 8 a.m. - 8 p.m. | Visitor Center, Tuesday - Sunday, 10 a.m. - 4 p.m.

Phone: 410-367-2217

There's more than 200 acres to this nature preserve with several hiking trails through the woods filled with numerous tree varieties and other flora, including Japanese maples, paperbark maples, sugar maples, wildflowers, and lilies among the more than 3,000 trees. The mansion, built in 1863, is fascinating for those who like interior design and has some 19th century tapestries and furnishings. Leashed dogs are welcome. [Check the calendar](#) for free firefly walks, guided garden walks, bonsai lecture, concerts, and fairs.

Our Playground at Stadium Place

Address: Located behind the YMCA at 33rd Street and Ellerslie, Baltimore, MD 21218

Hours: Open daily, dawn to dusk

Phone: 443-756-6198

There are dozens of playgrounds in and around Baltimore, many with unique features. This playground -- on the land where the old Memorial Stadium sat -- was built in 2005 as part of the Harry and Jeanette Weinberg Family Center Y. It burned down in 2008 and was rebuilt in 2009 from recycled plastic "lumber." The new build included lots of swings, climbing equipment, and a built-in xylophone, all on a soft-ish rubber surface. Walk the nearby Thanksgiving Place Labyrinth, and bring a picnic to enjoy on the tables.

Baltimore's Washington Monument

Address: 699 Washington Place, Baltimore, MD 21201

Hours: Wednesday - Sunday 10 a.m. - 5 p.m. (Wednesday summer hours, until 9 p.m.)

Phone: 410-962-5070

Image via Facebook/[Mount Vernon Place](#)

This Washington Monument was built in 1815, so it's definitely the first in the United States. (The one in Washington, D.C., was built in 1848.) It was built in the Mount Vernon area, well north of downtown Baltimore, just in case it collapsed. Check out the displays on the ground floor for free. Stop by on a Wednesday summer night for a movie and other free events throughout the year. For a fee (\$6 for adults and \$4 for

children), and with a reservation ([book online](#)), visitors can climb the 228 steps to the top for an OMG! view of the city. You're allowed 20 minutes to go up, look around, and climb down, and there's a limit of five people at a time.

Kids Bowl Free

- Patterson Bowling Center: 2105 Eastern Ave., Baltimore, MD 21231 | P: 410-675-1011
- Stoneleigh Duckpin Bowling: 6703 York Road, Baltimore, MD 21212 | P: 410-377-8115

Hours:

- Patterson: Monday - Friday, 11 a.m. - 5 p.m. | Saturday & Sunday, 11 a.m. - 2 p.m. (through Sept. 25)
- Stoneleigh: Monday - Wednesday, 11 a.m. - 4 p.m. | Thursday, 11 a.m. - 5 p.m. (through Sept. 1)

Patterson Lanes have been around since 1927, and it's a great place for children to learn how to bowl duckpins (12 lanes) and score on paper sheets the way we used to do it. (No automatic scoring here!) The new owner started a renovation in early 2017 that will cost about \$250,000. It includes bathrooms, a snack bar, and a new bumper system for children. Stoneleigh has 16 duckpin lanes and also pencil-and-paper scoring sheets. Children 15 and under can bowl two games for free every day at Patterson and on select days at Stoneleigh. They must have bowling shoes, either their own or rented. A discounted family pass is available, but purchase is not required.

Hampton National Historic Site

Address: 535 Hampton Lane, Towson, MD 21286

Hours: Grounds open daily, 8:30 a.m. - 5 p.m. | Mansion open Thursday - Sunday, 9:30 a.m. - 3:30 p.m. | Visitor Station open Thursday - Sunday, 9 a.m. - 4 p.m.

Phone: 410-823-1309



Historic Hampton Inc@HHamptonInc

Twitter Ads info and privacy

This Georgian mansion and gardens date from the 1700s, and the National Park Service offers something different to see and experience in the 63 acres every time you visit. They offer guided tours of the mansion, lower house, and grounds. Or take your own self-guided tours of the gardens and outbuildings via [Virtual Tours](#) on your electronic device. Beyond the architecture and décor, visitors can play with toys of the 18th and 19th centuries, including marbles, jacks, Game of Graces, hoop and stick, and other items. Compare them with today's toys. Compare the wardrobe of yesteryear and today. There are so many interesting ways to explore history that can't be experienced in a book or classroom!

ROAD TRIP SCAVENGER HUNT

 <p>STOP SIGN</p>	 <p>MOVING TRUCK</p>	 <p>TACO BELL SIGN</p>	 <p>WHITE CAR</p>	 <p>TEXACO SIGN</p>
 <p>MEN WORKING</p>	 <p>CARGO CARRIER</p>	 <p>TRACTOR TRAILER</p>	 <p>MCDONALDS</p>	 <p>BICYCLE</p>
 <p>GREEN CAR</p>	 <p>MOBIL SIGN</p>	 <p>HOSPITAL SIGN</p>	 <p>POLICE CAR</p>	 <p>BLUE CAR</p>
 <p>WENDY'S SIGN</p>	 <p>TAXI</p>	 <p>RED CAR</p>	 <p>YIELD SIGN</p>	 <p>BURGER KING</p>
 <p>SHELL SIGN</p>	 <p>SPEED LIMIT SIGN</p>	 <p>MOTORCYCLE</p>	 <p>ARBY'S SIGN</p>	 <p>BUS</p>

- [Pinterest](#)
- [Facebook](#)
- [Twitter](#)

This Printable Road Trip Scavenger Hunt game is the perfect way to get the kids to put down the electronic gadgets while on long road trips. If you live in an area of the world where some of the signs are not appropriate, substitute ones that work for your area. Maybe a special treat for each child that spots a new sign will keep their minds focused on the goal.

163shares

- [Pinterest](#)
- [Facebook](#)
- [Twitter](#)

Supplies

White Paper

Printer

Pen, Pencil or Marker

Instructions

Print out a game board for each kid and give them a utensil to mark off the signs as they spot them on your trip.

Maybe a special treat for each child that spots a new sign will keep their minds focused on the goal and something extra special for the winner.

Patterns, Templates and Printables

Click on a pattern to open it in a new window



TEACHING WITH TOYS

Toys provide an opportunity for children to learn. Use these tips to teach your children valuable skills while they are engaged in play.

- **Increase Oral Language (Talk While Playing)**

When your child is playing with toys that encourage imaginative play (dolls, action figures, housekeeping toys, etc.), you can introduce new words. When working with a preschooler, you can play “make believe” and use position words; for example, “The pots are **above** the sink” or “The baby is **in** the bed.” When working with an older child, you can use adjectives; for example, “The rescue hero is **agile**.” Take this opportunity to help your child use the appropriate terms for the action figure’s accessories; for example, “The rescue hero rides in a **hook-and-ladder fire engine**.” Playing with clay can also enhance a child’s vocabulary and ability to follow oral directions. Encourage your child to **squeeze, pinch, roll, twist, poke, and pound** the clay.

- **Build Math Vocabulary**

When your child is playing with puzzles, building blocks, or shaping clay, you can encourage the use of mathematical words. Children can **slide, flip, or turn** puzzle pieces and compare their size as **long, longer, or longest**. They can create **three-dimensional figures** with blocks and locate the **cubes, rectangular prisms, and cylinders**. Young children can shape clay into **spheres** and use cookie cutters to create **triangles, circles, and squares**.

- **Practice Motor Coordination and Estimation**

Bouncing on a pogo stick, riding a bike, or using roller blades provides the opportunity to practice estimation. Have your child predict the number of bounces on a pogo stick within a given time period or the amount of time it takes to ride a bike up the hill. Then ask if the estimate is accurate. When your child makes future estimates, encourage the use of past experiences to make more accurate predictions.

- **Improve Reading Skills**

Any game can be turned into a reading game. Think of words your child may be learning to read or spell. Write each word on an individual card, and use these flashcards as you play various board games. Have your child read a word from one of the flashcards before each turn.

BALTIMORE COUNTY PUBLIC SCHOOLS

- **Develop Motor Skills and Practice Problem Solving**

Building sets and craft activities encourage children to use their hands to manipulate small objects. Children may string beads to make a necklace or use blocks to build a castle or motorized vehicle. Whatever the age of your child, various building and craft activities provide practice in following directions and using problem-solving strategies. You can practice problem-solving skills with your child by asking questions that encourage thinking; for example, **“If you used six blocks to build a house with one level, how many blocks would it take for you to build a house with three different levels of equal size?”**

- **Increase Memory and Concentration**

Many different board games are available to support a child’s interests at any age. Young children can use matching games to recall the location of various pictures, numbers, or letters. Older children may use word-building games to strengthen vocabulary and practice spelling strategies. Board games provide children with an opportunity to work with others, share, and follow rules.

- **Explore Scientific Principles**

Children can use their toys or other objects around the house to learn about physical science. Help your child to identify the physical properties of various objects, including the texture, color, size, and mass. Young children love to play in water. Use various objects to help your child find out what makes something sink or float. You can also use containers to explore the concept of measurement or capacity. Older children may enjoy working with you to use a chemistry set. Together you can follow directions to explore chemical reactions. There are many different kits available that help children learn about scientific ideas. Children can build models of the human anatomy, the solar system, or animal habitats. While exploring scientific concepts, children may ask questions that can be answered by searching the Internet and visiting the public library.

Children learn through play. Providing children with a variety of different toys, games, books, and arts and craft materials allows them to explore new ideas and be creative.



BCPS Visual Arts Enrichment Camp Program Overview

The Baltimore County Summer Visual Arts Enrichment Program provides opportunities for students in grades 3-12 to build their personal art skills and add to their art portfolios. A variety of courses are offered to meet the varied needs and interests of the student whether the student is seeking to improve his or her art skills or is preparing a portfolio for acceptance into a magnet program, entrance into a college program, or preparation for an Advanced Placement exam.

A Typical Day at Art Camp:

Studio Experiences: Activities vary from day to day but generally include group interaction and independent work. Art problems attend to the processes artists engage in while creating art, as well as to the creation of finished art products.

Lunch: Students bring lunch daily.

Critiques/Discussions: Art problems provide opportunities for students to respond, connect, and present their work.

Open House Celebration!

An Open House/Reception will be held in the evening on Thursday, July 18, 2019, to give students, families, and teachers an opportunity to share in the two-week experience and see the work created over the two week period.

July 8-19, 2019

The Cost of the Program: \$395.00

Hours: 9:30 a.m. - 3 p.m.

Location: Perry Hall High School

Transportation Services

Bus pick up is available at the following locations (Tentative):

Bus 1: Catonsville Elementary, Sudbrook Middle Magnet, Woodlawn High

Bus 2: Holabird Middle School, Golden Ring Middle, Parkville High

Bus 3: Hereford High, Cockeysville Middle, Cromwell Elementary

Applications:

Applications can be downloaded at the following link

https://dci.bcps.org/UserFiles/Servers/Server_9046958/File/VisualArts/CAMP_APPLICATION_DIGITAL_2019.docx



or by QR code:

or by contacting any BCPS Visual Arts teacher!

If your child or the student for whom you are responsible does not have permanent and adequate housing, is temporarily staying in a shelter, group home, or with friends/family due to economic hardship, please contact his/her principal to ask for a waiver and a copy of the brochure entitled Homeless Children and Youth in Baltimore County Public Schools.

Questions should be directed to:

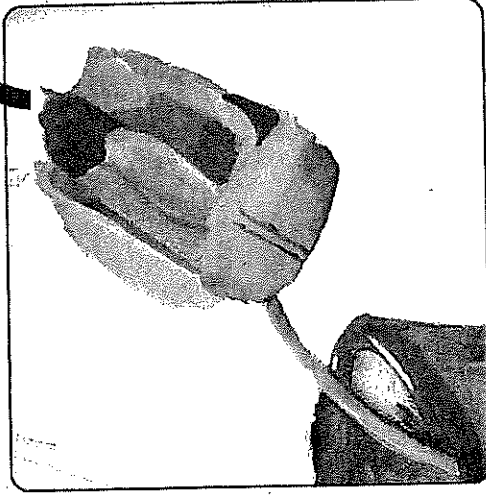
The BCPS Office of Visual Arts

Phone: 410-809-4030

Fax: 410-832-2917

Email: sfishe17@bcps.org

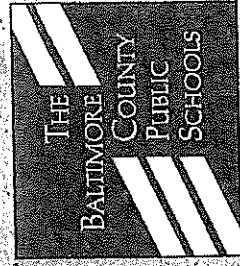
2019



Annual Visual Arts Enrichment Camp

July 8-19

@Perry Hall High School



Summer Art Enrichment Program Course Offerings

Entering Grades: 3-5

An Exploration of Artists and Their Materials

This program provides opportunities to explore a theme through a variety of art materials as they learn about the work of various artists. Students will be encouraged to refine their current art skills and develop new skills with different materials by experimenting with and using 2-dimensional drawing and painting media and 3-dimensional materials. Students will learn about the artistic process as they solve visual problems, develop their own interpretations of the theme, and create their own art.

Entering Grades: 6-8

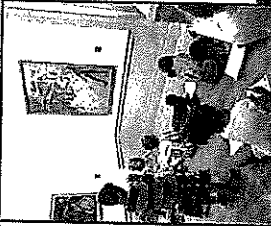
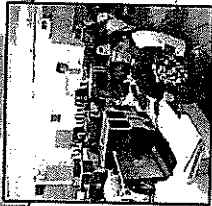
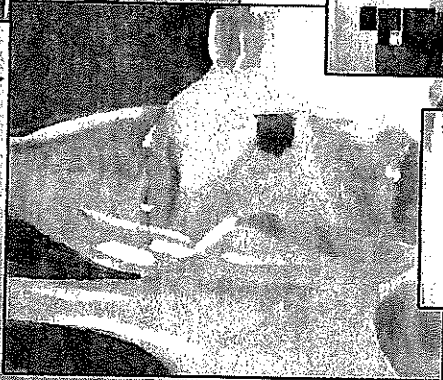
An Investigation of Media & Technique: Portfolio Development

This program is geared toward students interested in developing portfolios for consideration for magnet art programs. During this two-week program, students will create works of art that incorporate the traditional art forms of drawing, painting, and sculpture, as well as computer arts. Students will work from direct observation and imagination as they build a portfolio of work that provides a record of the progression of their ideas, skills, and images.

Entering Grades: 9-12

Painting & Drawing from Observation: Portfolio Development

This program is geared toward students who are interested in pursuing the sequential art program at the high school level and those who are preparing portfolios for Advanced Placement or college entrance. It allows students to survey their own artistic development to choose an area of concentration that will further their personal artistic growth. Students will research artists to find influences for their own work. Students will focus on drawing, watercolor and oil painting.



Build a Worm Condo Activity

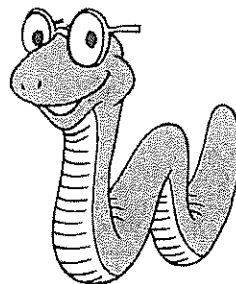


Materials Needed:

- 2 Clear plastic containers – one smaller than the other
- Screen or piece of stocking
- Rubber band
- Dirt
- Worms

Activity:

- Take two clear plastic containers, one smaller than the other. Place the smaller one inside the larger one, leaving a narrow space between the two containers.
- Fill the narrow space with fresh soil (do not use potting soil). Make sure the soil is moist, but not drenched.
- Place the worms inside the narrow space.
- Place the piece of screen or stocking over the top of the containers and secure with a rubber band.
- Watch how the worms move, tunnel, and aerate the dirt. This is what they do to the soil in your garden and lawn, enabling plant roots to grow.
- After a couple of days, return the worms to their native habitat.



ELA

What BCPS Parents Need to Know About...



ACTIVITIES TO SUPPORT LITERACY

FACT: “All young people experience learning losses when they do not engage in educational activities during the summer.”

Johns Hopkins University, Center for Summer Learning, 2007

Parents have fun with your family this summer by taking part in the activities below and at the same time you will be helping your child to continue to grow in all areas of language arts:

- Visit your local branch of the public library and participate in their summer reading programs for the whole family and countless special summer activities.
- Have your child locate and read a review of a movie they are planning to see; after the movie, engage your child in a discussion about the movie to see if they agree or disagree with the review.
- Encourage your child to view a film version of a novel that they read; have them explain which version they preferred and why.
- Encourage summer reading, but let your child choose recreational reading in addition to any book suggestions that are provided by the school.
- Buy a journal for each family member to take on vacation so that each of you records memorable events that occur each day. Share journal entries periodically.
- Take word games, such as *Scrabble* or *Scrabble Jr.*, on vacation to play when the weather does not cooperate.
- Have your child assist in researching the recreational, educational, and entertainment opportunities in the area in which you plan to travel.
- Have your child assist in writing an itinerary to follow during your summer travels.
- Listen to an audio book together or take turns reading a novel aloud as you travel.
- Discuss interesting/intriguing/controversial letters to the editor, editorials, or articles with your child.
- Encourage reading for pleasure by buying a subscription to one or more magazines that your child enjoys.

PARENT UNIVERSITY PRESENTS

What families need to know about ...



PHONEMIC AWARENESS

Phonemic awareness is the ability to **hear** individual sounds in spoken words and to **identify** and **use** these sounds. Before children learn to read, they need to become aware of letter sounds and how they work to form words. Phonemic awareness is the understanding that letter sounds work together to make words. Children who have strong phonemic awareness skills are likely to have an easier time learning to read and spell.

Below are phonemic awareness skills that children are learning in school:

- Discriminate (tell the difference between) sounds and words.
 - Tell whether the sounds are the same or different.
 - Recognize that letters represent sounds.
 - Identify the beginning, middle, and ending sounds in a one-syllable word.
 - Group the word according to the beginning, middle, and ending sounds.

- Discriminate and produce rhyming words (words having the same ending sound).
 - Repeat and produce rhyming words:
Examples: funny – bunny; man – pan; house – mouse

 - Discriminate rhyming words from non-rhyming words.
Examples: rainy – brainy (rhyming) vs. rainy – baby (non-rhyming)

- Discriminate and produce alliteration (words having the same beginning sound).
 - Identify and repeat phrases and sentences that use alliteration.
Example: Baby Bob bumps his bouncing ball.

- Blend sounds and syllables to form words.
 - Blend syllables into a whole word.

Example: fun-ny = funny

- Blend two, three, and four letters into one-syllable words.
Example: f-a-s-t = fast.

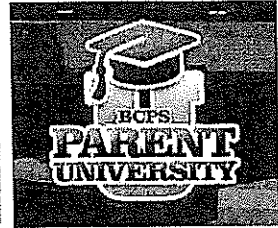
- Separate and use sounds in spoken words and sentences.
 - Identify the beginning sound in a word.
 - Substitute different beginning sounds to form new words:
Example: cat – bat – hat – sat – rat
 - Delete, add, and substitute sounds to form new words:
Example: table – able – stable – cable

How You Can Help Your Child at Home

- Practice the sounds of language. Read rhymes, poems, and songs to your child, pointing out the words that rhyme.
- Read poems and nursery rhymes, and leave out a rhyming word. Have your child guess the missing word and explain their answer.
- Play simple word games, such as...
 - How many words can you think of that rhyme with the word *bat*?
 - Have a letter scavenger hunt around the house. Ask your child, “How many items can you find around the house that begin with the same sound as *dog*?”
 - Take a letter walk. Decide before your walk what letter you are going to concentrate on while you are walking, and look for all the things beginning with that letter.
Example: As you begin your walk, say to your child, “Today we are going to see how many things we can see that begin with the letter *T*. What sound does the letter *T* make?” As you walk, your child will name all the things that begin with the letter *T* – trees, turtles, trucks, etc.
- Help your child separate the sounds in words, listen for beginning and ending sounds, and blend separate sounds together.
- Practice the alphabet with your child, and have the child tell you the sound that letter makes.
- Point out the letter-sound relationships your child is learning on boxes, newspapers, magazines, signs, and labels.

PARENT UNIVERSITY PRESENTS

What families need to know about ...



PHONICS

Phonics teaches children the relationships between the letters of written language and the individual sounds of spoken language. It teaches children to use these relationships to read and write words. This knowledge helps children to recognize automatically familiar words and to decode (figure out) new words. This skill improves children's word recognition, spelling, and reading comprehension.

Below are phonics skills that children learn in school:

- Recognize that letters have corresponding sounds.
 - Recognize similarities and differences in letter shapes.
 - Match familiar consonant sounds to appropriate letters.

- Identify the letters and their corresponding sounds.
 - Identify all uppercase and lowercase letters of the alphabet.
 - Identify letters matched to sounds.
 - Generate the sounds associated with individual letters and letter patterns.

- Use these skills to decode words in grade-level texts.
 - Identify and name uppercase and lowercase letters in words—beginning with the letters in the student's name.
 - Identify similarities and differences in letters and words.
 - Blend letter sounds in one-syllable words, and read these words fluently.
 - Recognize and apply short vowels, long vowels, and y as a vowel.
 - Use the following concepts to decode and read unfamiliar words: hard and soft consonants, consonant digraphs, blends, vowel patterns, R-controlled vowels, final consonants, and diphthongs.

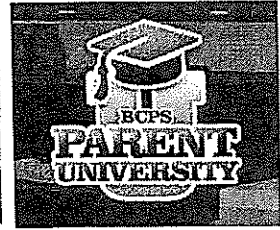
- Identify and apply vowel patterns and blends to help with fluency (the ability to read orally at a rate that sounds like speech).
- Use a known word-part to decode unknown words; for example, car->card.
- Break words into familiar parts: compound words, contractions, possessives, inflectional endings, word roots/base words, prefixes, and suffixes.

How You Can Help Your Child at Home

- Practice the sounds of language. Read books with rhymes. Teach your child rhymes, short poems, and songs. Play simple word games. For example, “*What words do you know that sound like the word bat?*”
- Help your child take apart and put together spoken words by listening for beginning and ending sounds and combining separate sounds.
- Reinforce the alphabet by pointing out letters wherever you see them and by reading alphabet books.
- Point to labels, boxes, newspapers, magazines, and signs that show the letter-sound relationships your child is learning.
- Listen to your child read words and books. As your child is reading aloud, point out words that were read incorrectly and help your child identify the words correctly. Talk about the meaning of new words so your child will be able to comprehend what is being read.
- Reread familiar books.
- Visit the library often.
- Set an example for your child—read together every day!

PARENT UNIVERSITY PRESENTS

What families need to know about ...



MAKING INFERENCES

Comprehending, or understanding, what one reads requires the reader to infer, or figure out, information that is not stated directly in the text. Making inferences is the ability to draw conclusions by making connections between what is stated in the text and the reader's own knowledge. Many times an author will imply a message without directly stating it. A reader is required to "read between the lines" and interpret the message that is not directly stated. It cannot be positively proven by the details given by the writer. For example, sometimes the main topic of a text may not be stated directly. A reader must look for clues and make an educated based on prior knowledge. This is called making an **inference**.

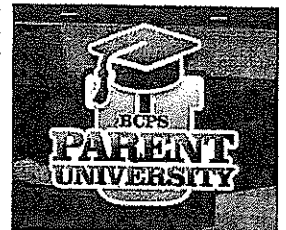
The reader's own knowledge is based on personal experiences and prior reading. Asking questions and using prior knowledge can help a reader understand deeper levels of meaning. Proficient readers examine the information presented and problem solve as they read to gain more from the text than what is stated on the page. Making inferences is an important skill that will impact a reader's comprehension.

How You Can Help Your Child at Home

- Use riddles and jokes that require your child to have prior information in order to find the answer.
- Read a nonfiction book together with your child. After you have finished the book, ask higher-level, open-ended questions about what you read. This type of question will require your child to make inferences.
- Help your child make connections between the illustrations and the text. Many times the illustrations can help the reader bring further meaning to the text.
- Help your child see cause and effect relationships. Ask: "What caused this result?" "What might happen if...?"
- Play the game *TriBond/TriBond, Jr., Brain Threezer Riddles* with your child.
- When your child does not understand a reading assignment, encourage your child to ask questions to help with the understanding.
- Expose your child to many different experiences to build their personal knowledge.

PARENT UNIVERSITY PRESENTS

What families need to know about ...



VOCABULARY DEVELOPMENT

Vocabulary development is an essential part of the reading process. The development of vocabulary involves learning, using, and understanding new and familiar words. The ability to use words and understand their meanings is key to comprehending what is read. Children learn new words and their meanings in several ways:

- Naming and labeling common objects
- Looking at how and where the word is used (context clues)
- Observing relationships between words (categorizing by concept)
- Looking at the parts of the word (structure)
- Using a dictionary, thesaurus, or glossary (resources).

As children apply the meanings of words to their own experiences, they gain understanding of the words. Below are some activities to help build your child's vocabulary.

1. Encourage your child to identify unfamiliar words they hear or read. Use the methods described above to determine the meaning of unfamiliar words through the context, concept, structure, or use of a resource.
2. Help your child understand a new word by connecting it to their prior experiences or knowledge. (inference)
3. Sort words into groups by their relationships to each other (categorize). Example: animals, colors, seasons, and numbers.
4. As you read together, look for clues to new words and their meanings by observing how or where the word is used (context).
 - Look at any pictures that are available. Based on the pictures ask: *"What could the unfamiliar word mean?"*
 - Read the words before and after the unfamiliar word. Look for words that give clues. *"What could the unfamiliar word mean?"*
 - Read the sentences before and after the unfamiliar word. *"What could the unfamiliar word mean?"*

5. Help your child examine the parts of words (structure) in order to group them with similar words and gain meaning.
 - “*Are the words contractions?*” (can not = can’t)
 - “*Is the word a compound word?*” (dog + house = doghouse)
 - “*Is there a prefix?*” (anti = against, antibacterial)
 - “*Is there a suffix?*” (est = most, tallest)

6. Have your child keep a list of new words in a notebook. Review the words and their meanings and watch the list grow.

7. Use text features to help your child determine the meaning of new words. These features are informational aids used in a text to bring meaning to the concepts or ideas presented. Text features include:
 - Photographs and illustrations
 - Captions and headings
 - Charts and diagrams
 - Bold, highlighted and italicized text

8. Provide resources your child can use to find the meanings of new words:
 - Dictionaries
 - Textbook glossaries
 - Thesaurus

9. Encourage your child to use new words they learn when they speak and write. Make a point of using these new words when you speak with them.



VOCABULARY DEVELOPMENT

RHYMING WORDS

Rhyming words are words with an ending that sounds similar to the ending of another word. Help your child enhance their understanding of letter sounds by repeating these rhyming words.

sing, wing, thing, ring	pot, dot, not, hot, got	cat, bat, fat, hat
pin, chin, win, thin	goat, boat, float, coat	take, bake, fake, lake
scream, dream, team, seam	sled, bed, fed, sped	beet, feet, sheet, sleet
hide, tide, wide, slide	duck, luck, stuck, cluck	rude, dude, nude, crude
light, night, fright, sight	tell, bell, sell, fell	sick, pick, chick, quick
bug, rug, dug, tug	mop, cop, top, pop	grew, new, stew, few
tag, bag, rag, sag	by, dry, my, fry	rock, sock, dock, lock
pink, drink, sink, think	best, nest, test, rest	make, cake, take, lake
grow, slow, know, tow	pain, main, chain, gain	day, pay, say, play
store, snore, score, more	black, sack, track, snack	shine, pine, mine, fine

Building a Reader At Home

Explore Books!

Give your child an opportunity to explore books. **Visiting a library or bookstore** gives your child a chance to find books that interest them.

Read, read, read!

Make sure to read for at least **20 minutes per day!** Students can read independently, aloud to an adult, or back and forth with a partner.

Ask Questions!

- Predictions
- Characters
- Main Idea
- Problem/Solution
 - Moral
- Retell Story
 - Genre

Pick Good Fit Books

A book that is a good match for your child should meet the following requirements:

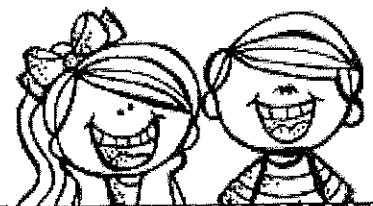
(1) Purpose for reading (2) Interest (3) Can they understand what they are reading? Can they retell the story? (4) Do they know most of the words?

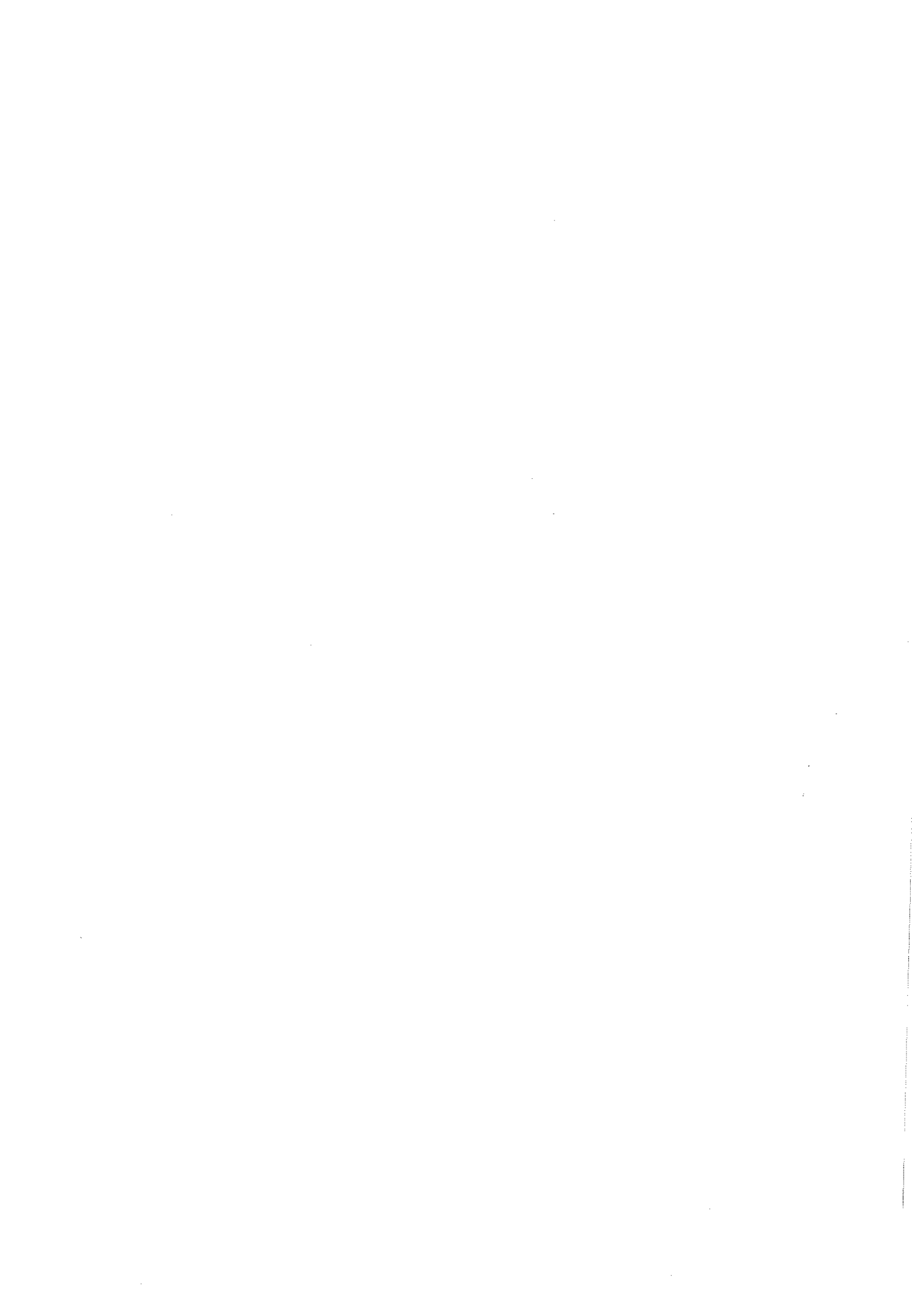
For Beginning Readers:

- Point out and read words in natural settings- stories, streets, etc.
 - Memorize sight words
 - Visualize the story in your head
 - Ask questions before, during, and after
- Don't immediately tell an unknown word to your student.** Instead, ask them to:
- Sound out the word
 - Break the word into chunks
 - Try a different vowel sound (long/short)
 - Use illustrations for clues
 - Skip the word, re-read sentence, and go back- what word would make sense?

For Advanced Readers:

- Notice interesting, new vocabulary words, and make it a challenge to use them in conversation
 - Read with expression
- Explore non-fiction books and their text features (diagrams, table of content, etc.) along with other genres as well
- Compare and contrast books
 - Discuss connections
- Explore multiple books from the same author





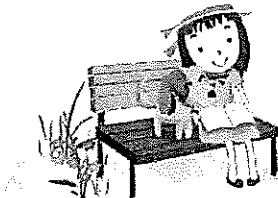
Helping Your Child with Reading - Some Questions to ask about a book

Here are some questions that may help you to support your children's reading and enjoyment of the stories that they choose. It is not expected that you ask every question, every time they read a book to you! However, by choosing 2 or 3 of the questions to ask your child before, during and after the reading of their book, it will support their developing comprehension of what they read and ultimately, their enjoyment of the books that they choose.



Whilst the questions and ideas listed below will help to develop and support your child's reading in Key Stage 1, they can also be adapted to allow you to support your child as they continue to develop in their reading and enter Key Stage 2.

They can also be adapted to any text that your child is reading (eg. comics, newspapers, leaflets, information on signs (eg. At the zoo), etc)



During the reading of the book:

- Tell me what is happening in the pictures?
- What has happened so far? Is it what you expected to happen?
- What might happen next? How do you think the story might end?
- What sort of character is....? Is he/she friendly/ mean/ nice...?
- Ask children about events in the story: How would you feel if you had been that character? Has anything like that happened to you? Would you like that to happen to you?
- If reading an information book: What facts have you read? Have you learnt anything new? What does this page tell you about? Is there anything that interests you on this page? Where would you go to find information about....?



At the end of the book:

- What was their favourite part? Why?
- What was the most interesting/ exciting part of the book? Can you find it?
- What sort of character is....?
- Why did that character do ... (give a situation/ event from the story)?
- What happened in the story?
- Are there any words or phrases that you enjoyed?
- Did the pictures help you to understand the story better?

- Would you still read this book if it did not have pictures? Why?
- Are there any parts of the book that are repeated? Why do you think that the author did that?
- Who are the main characters in the story? What character would you like to be?
- Why are some words written in capital letters? Italics? Bold print? Different colour?
- Do you think this book has helped you to understand... Better?
- Would you like to read another story by this author or illustrator?
- Have you read any other books like this one? Is it happy/ sad/ scary/ exciting? Why do you think this?
- Does this book remind you of any other stories, or TV programmes/ DVDs?
- Does this story remind you of anything that has happened to you?
- Tell me about some other books that you have read recently.
- Did you like this book? Why? (Encourage children to develop their opinion about books by encouraging them to explain their reasons)



Some key words to use when discussing books with your child:

Story
Book
Character
Setting
Plot
Author
Illustrator
Title
Contents
Index
Glossary
Headings
Sub-headings
Blurb
Beginning
Middle
End
Fiction
Non-fiction

Information
Page
Bold
Italic
Under-lined
Pictures/ illustrations
Predict
Front cover
Back cover
Publisher



21 Questions to Ask Your Child About a Book

Talking to your children about the books they read is one of the best ways to support your child's literacy development. Your child needs to engage in critical thinking to discuss a book — a key skill for success in school as well as life. Here are some tips on how to start and sustain a book discussion with your child:

Before your child reads a book, ask:

- Why did you select this book?
- What makes you think this book is going to be interesting?
- What do you think the book is going to be about?
- Does this book remind you of anything else you've already read or seen?
- What kind of characters do you think will be in the book?
- What do you think is going to happen?

While your child is reading a book, try asking:

- Will you catch me up on the story? What's happened so far?
- What do you think will happen next?
- If you were that character, what would you have done differently in that situation?
- If the book was a TV show, which actors would you cast in it?
- Where is the book set?
- If the main character in that story lived next door, would you be friends?
- What does the place look like in your head as you read? Would you want to visit there?
- Did you learn any new words or facts so far?

After your child has finished a book, ask questions like:

- What was your favorite part of the book? Why?
- Who was your favorite character? Why?
- What was the most interesting thing you learned from the book?
- Why do you think the author wrote this book?
- Would you have ended the book differently? Did it end the way you thought it would?
- Did the problem of the book's plot get solved?
- If you could change one thing in the book, what would it be?

GENERAL COMPREHENSION INFORMATION



BE A STRATEGIC READER

Make a Prediction

- I predict that...because...
- I bet that...because...
- I think that...because...
- Since this happened (fill in detail), then I think the next thing that will happen is...
- Reading this part makes me think that this is going to happen next...

Ask Yourself a Question

- Why did...
- I wonder...
- How...
- What would happen if...
- Who is...
- Do you think that...
- I don't get this part...
- I don't understand why...

Clarify Information

- Oh, I get it...
- Now I understand...
- This makes sense now...
- No, I think it means...
- I agree with you. This means...
- At first I thought (fill in detail), but now I think...

Visualize

- This reminds me of...
- I can almost see...
- This part is so descriptive...
- I like the way the author described...
- Picturing this part helped me to better understand...

<p style="text-align: center;">Make a Connection</p> <ul style="list-style-type: none"> • This reminds me of... • This part is like... • The character _____ is like _____ because... • This is similar to... • I remember when I... • This character makes me think of... 		<p style="text-align: center;">Make an Inference</p> <ul style="list-style-type: none"> • The character said that because... • I think this means... • I think the character did that because... • I think the character is thinking... • The text says _____, so I'm thinking...
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	<p>Evaluate</p> <ul style="list-style-type: none"> • This is good because ... • I like the part where ... • My favorite part so far is ... • This author really understands ... • This author was good at ... • When the author _____, I thought about ... 	
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As you read with your child tonight,

ask them...

- How to hold the book correctly.
- Turn the pages one at a time.
- To point to the cover, title, spine, title page, title and illustrations.
- To hunt for a letter they are working on learning.
- To point to where you start reading.
- To show you which way your finger moves under the words when you read.
- To count how many words in a sentence.
- To point to the punctuation mark. Ask what kind of punctuation mark it is and when it's used.
- To count how many letters in a word.
- Where your finger goes when you get to the end of the line.
- To track the words as you read.
- Is the book fiction or non-fiction?
- To make a personal connection to the story.
- What the story is about?
- To point to which letter gets a capital in a sentence.

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- Is the book fiction or non-fiction?
- To make a personal connection to the story.
- What the story is about?
- To point to which letter gets a capital in a sentence.

As you read with your child tonight, ask them...

- To make a prediction based on the title and illustrations.
- To hunt for a word they are working on.
- To tell you the sound the first letter in a word makes.
- To determine how many syllables are in a word read.
- To blend the sounds you read.
- To think of a word that rhymes with a word in the story, or to offer the word that comes next when stories are told in a rhyme pattern.
- Specific questions about events in the story- particularly who, what, when and where the story is taking place.
- Who the characters are.
- What the setting of the story is.
- What the problem is in the story and how it was solved. How would they solve the problem?
- What happened first in the story?
- What happened in the middle of the story?
- What happened at the end of the story?
- To name all the letters on the page, including capital and lower case.
- The sounds of all the letters on the page.

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- The sounds of all the letters on the page.



WORD PLAY

PRACTICING SIGHT WORDS

Sight words are the most common words in text and spoken language. The ability to have your child automatically recognize words, without sounding them aloud, will help your child be a more fluent reader. Here are activities you can do to assist your child with recognizing these basic words.

1. Make an *alphabet book* with sight words.
2. Make a *word wall* in your child's bedroom by taping words printed on index cards to the wall at your child's eye level.
3. Play *Flashlight*.

Before bedtime, turn off the lights, shine a flashlight on a word on the word wall, and have your child read the word.

4. Play *Cross-Off*.

Write the practice words on a large sheet of paper. Read a word to your child. Have your child cross out that word.

5. Play *Follow My Directions*.

Write the practice words on a sheet of paper. Give your child specific directions to follow. Examples:

- Draw a red circle around the word *the*.
- Draw a green line under the word *and*.
- Put an X on the word *here*.
- Draw a triangle above the word *we*.

6. Play *What's the Missing Word?*

Lay five practice words side-by-side on a table. Have your child study the words carefully. Have your child cover his or her eyes. Remove a card from the row. Say, "Open your eyes! What's the missing word?"

5. Have your child find the practice word(s) in a storybook as you read together each day.
6. Have your child use a highlighter to highlight the practice words in a newspaper or in a magazine.
7. Create and display a *word worm* in your child's bedroom.

Cut out construction paper circles. Draw a face on one circle. Print one practice word on each of the remaining circles. Tape the circles together on a wall to form a "worm." Practice reading the worm several times each day.

Fry Sight Words

First 100 Words (#1-100)

the
of
and
a
to
in
is
you
that
it
he
was
for
on
are
as
with
his
they
I
at
be
this
have
from

or
one
had
by
words
but
not
what
all
were
we
when
your
can
said
there
use
an
each
which
she
do
how
their
if

will
up
other
about
out
many
then
them
these
so
some
her
would
make
like
him
into
time
has
look
two
more
write
go
see

number
no
way
could
people
my
than
first
water
been
called
who
oil
sit
now
find
long
down
day
did
get
come
made
may
part

Fry Sight Words

Second 100 Words (#101-200)

over
new
sound
take
only
little
work
know
place
years
live
me
back
give
most
very
after
things
our
just
name
good
sentence
man
think

say
great
where
help
through
much
before
line
right
too
means
old
any
same
tell
boy
follow
came
want
show
also
around
form
three
small

set
put
end
does
another
well
large
must
big
even
such
because
turn
here
why
ask
went
men
read
need
land
different
home
us
move

try
kind
hand
picture
again
change
off
play
spell
air
away
animal
house
point
page
letter
mother
answer
found
study
still
learn
should
America
world

Fry Sight Words

Third 100 Words (#201-300)

high	saw	important	miss
every	left	until	idea
near	don't	children	enough
add	few	side	eat
food	while	feet	face
between	along	car	watch
own	might	mile	far
below	close	night	Indian
country	something	walk	real
plant	seem	white	almost
last	next	sea	let
school	hard	began	above
father	open	grow	girl
keep	example	took	sometimes
tree	begin	river	mountains
never	life	four	cut
start	always	carry	young
city	those	state	talk
earth	both	once	soon
eyes	paper	book	list
light	together	hear	song
thought	got	stop	being
head	group	without	leave
under	often	second	family
story	run	late	it's

Fry Sight Words

Fourth 100 Words (#301-400)

body	order	listen	farm
music	red	wind	pulled
color	door	rock	draw
stand	sure	space	voice
sun	become	covered	seen
questions	top	fast	cold
fish	ship	several	cried
area	across	hold	plan
mark	today	himself	notice
dog	during	toward	south
horse	short	five	sing
birds	better	step	war
problem	best	morning	ground
complete	however	passed	fall
room	low	vowel	king
knew	hours	true	town
since	black	hundred	I'll
ever	products	against	unit
piece	happened	pattern	figure
told	whole	numeral	certain
usually	measure	table	field
didn't	remember	north	travel
friends	early	slowly	wood
easy	waves	money	fire
heard	reached	map	upon

Fry Sight Words

Fifth 100 Words (#401-500)

done	decided	plane	filled
English	contain	system	heat
road	course	behind	full
half	surface	ran	hot
ten	produce	round	check
fly	building	boat	object
gave	ocean	game	am
box	class	force	rule
finally	note	brought	among
wait	nothing	understand	noun
correct	rest	warm	power
oh	carefully	common	cannot
quickly	scientists	bring	able
person	inside	explain	six
became	wheels	dry	size
shown	stay	though	dark
minutes	green	language	ball
strong	known	shape	material
verb	island	deep	special
stars	week	thousands	heavy
front	less	yes	fine
feel	machine	clear	pair
fact	base	equation	circle
inches	ago	yet	include
street	stood	government	built

Fry Sight Words

Sixth 100 Words (#501-600)

can't	picked	legs	beside
matter	simple	sat	gone
square	cells	main	sky
syllables	paint	winter	grass
perhaps	mind	wide	million
bill	love	written	west
felt	cause	length	lay
suddenly	rain	reason	weather
test	exercise	kept	root
direction	eggs	interest	instruments
center	train	arms	meet
farmers	blue	brother	third
ready	wish	race	months
anything	drop	present	paragraph
divided	developed	beautiful	raised
general	window	store	represent
energy	difference	job	soft
subject	distance	edge	whether
Europe	heart	past	clothes
moon	site	sign	flowers
region	sum	record	shall
return	summer	finished	teacher
believe	wall	discovered	held
dance	forest	wild	describe
members	probably	happy	drive

Fry Sight Words

Seventh 100 Words (#601-700)

cross	already	hair	rolled
speak	instead	age	bear
solve	phrase	amount	wonder
appear	soil	scale	smiled
metal	bed	pounds	angle
son	copy	although	fraction
either	free	per	Africa
ice	hope	broken	killed
sleep	spring	moment	melody
village	case	tiny	bottom
factors	laughed	possible	trip
result	nation	gold	hole
jumped	quite	milk	poor
snow	type	quiet	let's
ride	themselves	natural	fight
care	temperature	lot	surprise
floor	bright	stone	French
hill	lead	act	died
pushed	everyone	build	beat
baby	method	middle	exactly
buy	section	speed	remain
century	lake	count	dress
outside	iron	consonant	cat
everything	within	someone	couldn't
tall	dictionary	sail	fingers

Fry Sight Words

Ninth 100 Words (#801-900)

supply	guess	thick	major
corner	silent	blood	observe
electric	trade	lie	tube
insects	rather	spot	necessary
crops	compare	bell	weight
tone	crowd	fun	meat
hit	poem	loud	lifted
sand	enjoy	consider	process
doctor	elements	suggested	army
provide	indicate	thin	hat
thus	except	position	property
won't	expect	entered	particular
cook	flat	fruit	swim
bones	seven	tied	terms
mall	interesting	rich	current
board	sense	dollars	park
modern	string	send	sell
compound	blow	sight	shoulder
mine	famous	chief	industry
wasn't	value	Japanese	wash
fit	wings	stream	block
addition	movement	planets	spread
belong	pole	rhythm	cattle
safe	exciting	eight	wife
soldiers	branches	science	sharp

Fry Sight Words

Tenth 100 Words (#901-1000)

company
radio
we'll
action
capital
factories
settled
yellow
isn't
southern
truck
fair
printed
wouldn't
ahead
chance
born
level
triangle
molecules
France
repeated
column
western
church

sister
oxygen
plural
various
agreed
opposite
wrong
chart
prepared
pretty
solution
fresh
shop
suffix
especially
shoes
actually
nose
afraid
dead
sugar
adjective
fig
office
huge

gun
similar
death
score
forward
stretched
experience
rose
allow
fear
workers
Washington
Greek
women
bought
led
march
northern
create
British
difficult
match
win
doesn't
steel

total
deal
determine
evening
hoe
rope
cotton
apple
details
entire
corn
substances
smell
tools
conditions
cows
track
arrived
located
sir
seat
division
effect
underline
view

COMPREHENSION



CONCEPTS OF PRINT

You can assist your child in developing reading readiness skills by talking about *features of print* as you read to your child. Don't forget that enjoying the book together is the most important part of all!

Concept

Prompt

Front Cover

Show me the front of the book.

Back Cover

Show me the back of the book.

Title of Book

Show me the title of the book.

Title Page

Show me the title page.

First Page of Text

Show me the page we read first.

Print Carries Message

Show me where it tells the story.

Beginning of Text

Show me where we start to read.

Left to Right

Which way do we read the words?

Top to Bottom

Which way do the words go from there?

Return Sweep

Where do we go at the end of a line?

One-to-One

Can you point to words as I read?

Word Boundaries

Can you put your fingers around a word?

First Word

Show me the first word on the page.

Last Word

Show me the last word on the page.

Letter Concept

Can you put your finger on a letter?

Capital Letter

Can you show me a capital letter?

Lower Case Letter

Can you show me a lower case letter?

The Period

What is this for?

Question Mark

What is this for?

Quotation Mark

What is this for?

BALTIMORE COUNTY PUBLIC SCHOOLS



GAMES TO BUILD VOCABULARY

Playing the games on this list could help build your child's vocabulary skills and make reading easier.

Newspaper	Crossword puzzles Word puzzles/jumbles in the comics section
Home Games	Hangman Word puzzle books
Board Games	Balderdash™ Bananagrams Boggle® or Boggle Jr.® Brain Quest® Cranium® or Cranium Jr.® Cadoo® Lexogon® Outburst® or Outburst Jr.® Oxford Dilemma Trivia Game® Scattergories® Scene-It® Scrabble® or Scrabble Jr.® Scrabble® Upwards® Taboo® Triwords® Trivial Pursuit® Wheel of Fortune® Word Sense® Word Scramble™
Online Games	Wheel of Fortune® What Word® Wordworm® Jeopardy®

14 Fun Summer Journal Topics

1. Explain, in an entertaining way, how to skip a stone across a pond.
2. Write a how-to guide to having an incredible summer.
3. Use the following words in a summer related story of 200 words: sun, freedom, ride, run, slide, laugh, howl, vacation, sleep, and jump.
4. Write the lyrics to a song or poem about your love of summer.
5. Draw and label a map of your favorite summer vacation spot. Include yourself on the map.
6. Write a recipe explaining how to make your favorite summer dish.
7. Write 10 creative ways to use a Frisbee on a hot day.
8. Invent a new game using these materials: an inner tube, a skateboard, ping pong balls, a plastic baseball bat and an inflatable child's pool.
9. Describe how a squirt gun works.
10. Draw and label a map of the ultimate water park.
11. Write a persuasive letter to the principal convincing him or her that students would benefit from an extra week of summer.
12. Write a list of supplies needed for a 3-day camping trip.
13. Describe a summer day from the perspective of the beach, lake or swimming pool. Personify the water and describe its thoughts about the sudden increase in activity in and around it.
14. Describe your perfect summer day.

53 Writing Prompts Celebrating Summer

1. Where is your favorite place to go during the summer?
2. Write about your ideal summer day. What does it include?
3. What is your favorite family summer tradition?
4. Choose five words to describe your summer. Why does each word fit your experience?
5. Plan a "stay-cation" for the last week of summer. What will you do?
6. Did you spend much time with friends this summer? What did you do together?
7. What is the best way to celebrate the end of summer?
8. What is your favorite summer memory?
9. How did you spend most of your summer?
10. Do you get to stay up late during the summer? What do you do with the extra time?
11. Have you ever gone to a summer camp? What was it like? If you haven't been to a summer camp, write a fictional story about your ideal experience.
12. How do you prepare to go back to school?
13. What are you most excited to do when school starts?
14. How did you spend the Fourth of July?
15. How do you feel when summer ends?
16. What did you do on the first day of summer?
17. What would you do if summer lasted all year long?
18. Write a poem describing the last day of summer.

19. Have you ever had a summer job or done something to make money during the summer? Write about your experience or brainstorm money-making vacation ideas.
20. What are the best summer activities in our city?
21. How many times did you go swimming this summer? Write about your favorite memory at the pool.
22. Plan a different fun thing to do for each day of the last week of summer, and write about your experiences at the end of each day.
23. Write a story about your summer. Include your favorite memories and lots of descriptions.
24. How did this summer compare to other summers?
25. Did you go on vacation this summer? Where did you go? What did you do?
26. What is your favorite thing to do outside during the summer?
27. What are the key ingredients of a memorable summer?
28. How are the beginning and the end of summer different from one another?
29. How would school vacations be different if they took place during the winter instead of the summer?
30. How will you spend the rest of the summer?
31. What do you feel on the night before school starts?
32. Think of three fun summer activities. Can you do any of them before the school year starts?
33. If you could spend a summer anywhere in the world, where would you go? Why?
34. What is your favorite summer holiday?
35. Does your family have any special rules during the summer?
36. What do you like to do on the last day of summer?

37. Are you looking forward to going back to school?
38. Write a poem that celebrates summer.
39. What is your favorite summer treat?
40. Is it better to be inside or outside during the summer?
41. Write a letter to a family member describing your summer. Don't forget to ask what he or she did!
42. What are some special things to do during the summer?
43. What is the best part of summer?
44. Should teachers assign summer homework? Why or why not?
45. How do you know when summer has arrived?
46. What is the most exciting thing you did all summer?
47. What does it feel like when summer starts to end?
48. Which summer month is best? Why?
49. Did you keep a journal this summer? Why or why not? If so, did it help you remember your favorite events?
50. Write about summer using all five senses to describe the way you feel during the season.
51. Think of a word to describe summer and describe how the word makes you feel.
52. Did you ever get bored during the summer? What did you do to fix it?
53. What is the happiest day you experienced during the summer? Why does the memory stand out?

Until next time, write on...



FISHING TO LEARN GAME – LANGUAGE ARTS

This game creates a fun way to learn, and it is inexpensive and easy to make. It is great to play at home with your child while helping to reinforce sight and/or spelling words.

Materials Needed:

- 1 basket or bowl
- 1 small stick or pole
- 1 box of paper clips
- 1 magnetic clip (can be purchased at a dollar store)
- 1 list of sight and/or spelling words
- 1 bright-colored used box

Number of Players: Can be played alone or with others.

Preparation:

1. Cut fish shapes from the box and write sight and/or spelling words on the blank side of the fish. Slip on paper clip.
2. Fill bowl or basket with the cardboard fish.
3. Place the magnet side up.
4. Tie a string to the stick or small pole.
5. Attach magnetic clip to the other end of the string.

How to Play:

1. Have your child hold the fishing pole over the bowl or basket, placing the magnetic clip on the cardboard fish.
2. Have your child identify the word he has fished out of the bowl.



SHAKE THEM UP!

EGG CARTON GAME FOR LANGUAGE ARTS

This game is inexpensive and easy to make, and it creates a fun way to learn! It is great to play while riding in the car or waiting at the doctor's office or just about any time.

Materials Needed:

- 1 egg carton
- * 1 button, coin, or cereal or candy piece
- 1 marker
- Tape

Number of Players: Can be played alone or with others

Preparation:

1. Tape up any holes on the egg carton.
2. Write letters in the bottom of each section in the carton.

How to Play:

1. Place the button, coin, cereal, or candy piece in the egg carton.
2. Shake it up.
3. Match the activity to the skill your child needs to master. For example, use the letters that the button lands on to have your child:
 - Identify the letters by naming them.
 - Match the upper-case letter with lower-case letter.
 - Produce the sound that the letter makes.
 - Name a word that begins with that letter, ends with the letter, or has the letter in the middle.

** Young children should be supervised when using small items such as buttons or coins.*

A-Z Book Recommendations

A

Alexander and the Terrible, Horrible, No Good, Very Bad Day

by Judith Viorst, illustrated by Ray Cruz (1972)
It was enough to make you want to go to Australia.

All-of-a-Kind Family

by Sydney Taylor, illustrated by Helen John (1951)
Cozy vignettes of a turn-of-the-century Lower East Side family.

Amelia Bedelia

by Peggy Parish, illustrated by Fritz Siebel (1963)
The queen of idioms makes her grand appearance on the page!

The Arrival

by Shaun Tan (2007)
Feel what it's like to travel to a strange new land.

B

Bark, George

by Jules Feiffer (1999)
He meows, quacks, oinks, and moos, but why can't George the dog bark?

Because of Winn-Dixie

by Russell Hoban, illustrated by Lillian Hoban (1964)

While the same old same old can be so inviting, trying something new can sometimes be even better!

Bridge to Terabithia

by Katherine Paterson (1977)

Two outsiders create their own fantasy world and in doing so forge a friendship that survives even grief.

Brown Bear, Brown Bear, What Do You See?

by Bill Martin, Jr., illustrated by Eric Carle (1967)

A gentle rhyming delight in a storytime classic.

C

Caps for Sale

by Esphyr Slobodkina (1938)

Naughty monkeys prove a challenge for an innocent cap seller.

The Cat in the Hat

by Dr. Seuss (1957)

An unexpected guest turns a rainy day into a heart-pounding adventure.

Chains

by Laurie Halse Anderson (2008)

Sold into slavery to a Tory family in New York City, Isabel schemes to free herself and her little sister while spying for the rebels.

A Chair For My Mother

by Vera B. Williams (1982)

Glowing colors add cheer to this story of the wonderful day when there is finally enough money to buy Mama a new chair.

E

Esperanza Rising

by Pam Muñoz Ryan (2000)

Esperanza and her mother flee their privileged lives in Mexico and find refuge in the migrant camps of Southern California during the Great Depression.

F

Freight Train

by Donald Crews (1978)

A train ride to remember with bold colors galore!

Frog and Toad Are Friends

by Arnold Lobel (1970)

Toad's a worrier and Frog's laid back, but no matter what their differences, these two friends are there for one another.

From the Mixed-Up Files of Mrs. Basil E. Frankweiler

by E.L. Konigsburg (1967)

Claudia chooses the Metropolitan Museum in New York City as the elegant hiding place for herself and her little brother when they run away from home.

G

George and Martha

by James Marshall (1972)

A pair of hippopotami navigate the highs and lows of a perfect friendship.

Harriet the Spy

by Louise Fitzhugh (1964)

Shocking in its honesty, Harriet spies on friends and strangers alike until her secret observations get her in trouble.

Harry Potter and the Sorcerer's Stone

by J.K. Rowling (1998)

A down-trodden orphan is summoned to an elite academy of wizards to fulfill his destiny.

Hatchet

by Gary Paulsen (1989)

When his plane crashes in the Canadian wilderness, Brian and his single hatchet must survive the wild elements alone.

The Hobbit

by J.R.R. Tolkien (1937)

A rich imaginative tale of dragons, dwarves and the ageless search for gold. Rooted in authentic Saxon lore, but written and illustrated with humor and charm.

Holes

by Louis Sachar (1998)

Why does Stanley's juvenile detention center in the Texas desert require each boy to dig a 5-foot hole every day? An inventive narrative puzzle filled with twists and turns.

I

The Invention of Hugo Cabret

by Brian Selznick (2007)

In this epic tale set in a Paris train station, a young boy finds unexpected allies as he reconstructs his father's mysterious machine.

by Virginia Lee Burton (1942)

A heartwarming story of surviving change and finding just the right place for you.

The Little Prince

by Antoine de Saint-Exupéry (1943)

An allegorical tale of a stranded pilot and a boy from beyond the stars. "One sees clearly only with the heart."

Locomotion

by Jacqueline Woodson (2003)

When his teacher introduces him to poetry, 11-year-old Lonnie Collins Motion finds a new way to talk about his friends, his family, and even his crabby foster mother. A verse novel for the ages.

Lon Po Po: A Red-Riding Hood Story From China

by Ed Young (1989)

Three sisters match wits with a wily wolf.

M

Madeline

by Ludwig Bemelmans (1939)

Sometimes when you're the smallest you also have to be the bravest.

Make Way for Ducklings

by Robert McCloskey (1941)

Mother duck has to keep her babies, Jack, Kack, Lack, Mack, Nack, Ouack, Pack, and Quack in line. And it's certainly nice to have a friend in your corner when trying to cross a busy Boston street.

Matilda

by Ruth Stiles Gannett, illustrated by Ruth Chrisman Gannett (1948)

Elmer Elevator tries to rescue a baby dragon in distress from an island full of dangerous animals. A great read-aloud filled with adventure.

My Name is Yoon

by Helen Recorvits, illustrated by Gabi Swiatkowska (2003)

Desperately embarrassed by her name a little girl from Korea comes to understand that even in English her name is still "shining wisdom".

O

Olivia

by Ian Falconer (2000)

An amusing portrait of a precocious little pig with artistic sensibilities and a flair for fashion.

One Crazy Summer

by Rita Williams-Garcia (2010)

Three sisters are shipped off to California to stay with their estranged and distant mother at the height of the Black Panther movement.

P

The People Could Fly: American Black Folktales

by Virginia Hamilton, illustrated by Leo and Diane Dillon (1985)

In this mystical tale, slaves brought to America find the power to fly away to freedom in a timeless tale of hope.

The Phantom Tollbooth

by Mildred D. Taylor (1976)

Segregation and bigotry are no match for Cassie Logan and her large loving family in Depression-era Mississippi.

Rumpelstiltskin

by Paul O. Zelinsky (1986)

Can you guess his name? Stunning paintings in the late medieval style take a classic fairy tale to new heights.

S

A Sick Day for Amos McGee

by Philip Stead, illustrated by Erin E. Stead (2010)

Zoo animals fret when their beloved keeper catches a cold and doesn't show up for work one day.

The Snowy Day

by Ezra Jack Keats (1962)

A little boy explores the first city snow of the year from snow angels to a snowball tucked away safely into his pocket.

Starry River of the Sky

by Grace Lin (2012)

Rendi, a sullen young runaway stranded in a remote Chinese village, discovers secrets, stories, and the location of the missing moon.

The Stories Julian Tells

by Ann Cameron, illustrated by Ann Strugnell (1981)

Five humorous stories about mischievous Julian, his little brother Huey, and his warm and caring family.

The Story of Ferdinand

by Molly Bang (1983)

A father gently counts his daughter to sleep. Tender.

Tomie dePaola's Mother Goose

by Tomie dePaola (1985)

Classic nursery rhymes, both familiar and unknown, are deftly mixed together by this picture book master.

The True Story of the Three Little Pigs

by Jon Scieszka, illustrated by Lane Smith (1989)

All he was doing was trying to borrow some sugar. Alexander T. Wolf tells his side of the story.

Tuesday

by David Wiesner (1991)

While the town sleeps, an eerie flotilla of frogs flies through on lily pads.

V

The Very Hungry Caterpillar

by Eric Carle (1969)

It's a counting book, a days of the week story, a tale of colors, a die-cut wonder, and a memorable read-aloud rolled up in one!

W

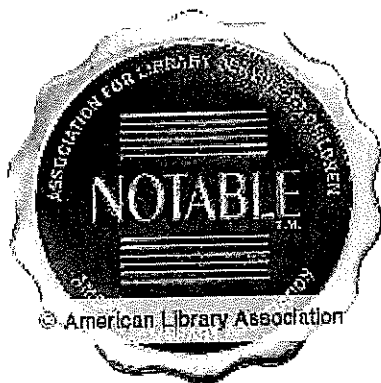
The Watsons Go to Birmingham—1963

by Christopher Paul Curtis (1995)

A road trip to grandma's for ten-year-old Kenny and his "weird" family is filled with humor until it is marked by the tragedy of a church bombing.

The Westing Game

Notable Children's Books - 2019



Each year a committee of the Association for Library Service to Children (ALSC) identifies the best of the best in children's books. According to the Notables Criteria, "notable" is defined as: Worthy of note or notice, important, distinguished, outstanding. As applied to children's books, notable should be thought to include books of especially commendable quality, books that exhibit venturesome creativity, and books of fiction, information, poetry and pictures for all age levels (birth through age 14) that reflect and encourage children's interests in exemplary ways.

According to ALSC policy, the current year's Newbery, Caldecott, Belpré, Sibert, Geisel, and Batchelder Award and Honor books automatically are added to the Notable Children's Books list.

According to the ALSC Notable Children's Books Committee manual, these categories loosely represent the following: **Younger Readers** – Preschool-grade 2 (age 7), including easy-to-read books; **Middle Readers** – Grades 3-5, ages 8-10; **Older Readers** – Grades 6-8, ages 11-14; **All Ages** – Has appeal and interest for children in all of the above age ranges

YOUNGER

All-of-a-Kind Family Hanukkah. By Emily Jenkins. Illus. by Paul O. Zelinsky. Random/Schwartz & Wade. Four-year-old Gertie wants to help her older sisters make the Hanukkah latkes, but she's just too little.

Alma and How She Got Her Name. By Juana Martinez-Neal. Illus. by the author. Candlewick. Alma Sofia Esperanza José Pura Candela thinks her name is too long, so her father tells her the story of where it came from. (***Caldecott Honor Book***)

Baby Monkey, Private Eye. By Brian Selznick and David Serlin. Illus. by Brian Selznick. Scholastic. Baby Monkey solves a variety of puzzling mysteries in an ingenious early chapter book for preschoolers and emerging independent readers.

A Big Mooncake for Little Star. By Grace Lin. Illus. by the author. Little, Brown. Mama bakes a big mooncake, but Little Star can't wait for it to cool and starts to nibble it away. (***Caldecott Honor Book***)

Black Bird Yellow Sun. By Steve Light. Illus. by the author. Candlewick. Follow Black Bird through the day in this stunning board book.

Blue. By Laura Vaccaro Seeger. Illus. by the author. Roaring Brook/Neal Porter. A boy and his dog grow older together in this spare and moving paean to love and attachment.

Bowwow Powwow / Bagosenjige-niimi'idim. By Brenda J. Child. Illus. by Jonathan Thunder. Tr. by Gordon Jourdain. Minnesota Historical Society. On her way to a powwow, Windy hears stories about powwows past and weaves these tales into a dream.

- The Day You Begin.*** By Jacqueline Woodson. Illus. by Rafael López. Penguin/Nancy Paulsen. One little girl joins a new class and finds her place as classmates share their unique backgrounds.
- Don't Touch My Hair!*** By Sharee Miller. Illus. by the author. Little, Brown. A spunky heroine uses humor to invite readers to understand boundaries and consent.
- Drawn Together.*** By Minh Lê. Illus. by Dan Santat. Disney/Hyperion. A boy and his grandfather bridge their cultural and generational divide through their shared love of art.
- Dreamers.*** By Yuyi Morales. Illus. by the author. Holiday/Neal Porter. Morales and her young son discover how they fit into their strange new country when they find the public library in this gorgeous, personal picture book. ***(Pura Belpré Illustrator Award Book)***
- The Fox on the Swing.*** By Evelina Daciūtė. Illus. by Aušra Kiudulaitė. Tr. by the Translation Bureau. Thames & Hudson. A fox invites Paul, a little boy, to deeply contemplate his feelings in this picture book originally published in Lithuania. ***(Batchelder Award Book)***
- Fox the Tiger.*** By Corey R. Tabor. Illus. by the author. HarperCollins/Balzer+Bray. Playful Fox loves tigers so much he turns into one (with the help of some paint) in this comical early reader. ***(Geisel Award Book)***
- Good Rosie!*** By Kate DiCamillo. Illus. by Harry Bliss. Candlewick. Shy pup Rosie's adventures at the dog park include funny, sweet, and relatable interactions with enormous Maurice and delicate Fifi.
- Hello Lighthouse.*** By Sophie Blackall. Illus. by the author. Little, Brown. A lighthouse keeper and his new wife raise their family and survive the hardships and joys of life offshore in this lovely, idyllic picture book. ***(Caldecott Medal Book)***
- How Raven Got His Crooked Nose: An Alaskan Dena'ina Fable.*** By Barbara J. Atwater and Ethan J. Atwater. Illus. by Mindy Dwyer. Alaska Northwest. Grandmother imparts the importance of patience as she retells the fable of trickster Raven and his missing nose.
- I Walk with Vanessa: A Story about a Simple Act of Kindness.*** By Kerascoët. Illus. by the authors. Random/Schwartz & Wade. One girl's upstanding action inspires her schoolmates to join and support a bullied child in this wordless, important story.
- Imagine!*** By Raúl Colón. Illus. by the author. Simon & Schuster/Paula Wiseman. A boy's imagination comes alive during his visit to the Museum of Modern Art in this wordless tribute to the power of art.
- In the Past: From Trilobites to Dinosaurs to Mammoths in More than 500 Million Years.*** By David Elliott. Illus. by Matthew Trueman. Candlewick. Short, pithy poems and dynamic illustrations take the reader through 500 million years of life on earth.
- Islandborn.*** By Junot Díaz. Illus. by Leo Espinosa. Dial. Given a school assignment to draw a picture of her homeland, Lola gathers stories of "the Island" from people in her Dominican neighborhood. ***(Pura Belpré Illustrator Honor Book)***

Jerome By Heart. By Thomas Scotto. Illus. by Olivier Tallec. Tr. by Claudia Zoe Bedrick and Karin Snelson. Enchanted Lion.

Raphael loves Jerome and, in spite of the response from his parents, he is not afraid to say that he knows his best friend by heart. (***Batchelder Honor Book***)

Julián Is a Mermaid. By Jessica Love. Illus. by the author. Candlewick.

Julián's chance encounter with three mermaids on a subway inspires him to create his own mermaid costume and reveal his inner self to his understanding abuela.

King and Kayla and the Case of the Lost Tooth. By Dori Hillestad Butler. Illus. by Nancy Meyers. Peachtree.

When Kayla's tooth goes missing from the tooth fairy pillow, she and her dog, King, investigate the mystery. (***Geisel Honor Book***)

Lena's Shoes Are Nervous: A First-Day-of-School Dilemma. By Keith Calabrese. Illus. by Juana Medina. Simon & Schuster/Atheneum.

Facing kindergarten, Lena must convince her shoes not to be nervous in this fresh look at a familiar experience.

Let the Children March. By Monica Clark-Robinson. Illus. by Frank Morrison. HMH.

A young participant in the children's crusade shows the world—and young readers—how to stand up for one's beliefs and make change.

Mommy's Khimar. By Jamilah Thompkins-Bigelow. Illus. by Ebony Glenn. Simon & Schuster/Salaam Reads.

A young Muslim girl loves her mom's khimars and uses all her senses to describe their beauty.

My Beijing: Four Stories of Everyday Wonder. By Nie Jun. Illus. by the author. Tr. by Edward Gauvin. Lerner/Graphic Universe.

Yu'er and her grandfather are amiable guides to their Beijing neighborhood, and Jun's lush watercolor artwork gives this graphic novel even more charm. (***Batchelder Honor Book***)

Night Job. By Karen Hesse. Illus. by G. Brian Karas. Candlewick.

A boy spends the night cleaning the school with his father. This is a tender and joyful look at work and time spent together.

A Parade of Elephants. By Kevin Henkes. Illus. by the author. Greenwillow.

Five elephants march in a line, up and down, under and over, and round and round, introducing simple concepts to very young children in this perfectly delightful confection.

The Party and Other Stories. By Sergio Ruzzier. Illus. by the author. Chronicle.

Fox and Chick manage to be good friends despite their differences in this uncluttered, laugh-out-loud early reader. (***Geisel Honor Book***)

The Patchwork Bike. By Maxine Beneba Clarke. Illus. by Van Thanh Rudd. Candlewick.

Against a backdrop of dynamic, action-filled paintings, a young girl describes, with tremendous pride, the bike that her brothers made from scrap material and the adventures they have.

The Rough Patch. By Brian Lies. Illus. by the author. Greenwillow.

The state of Fox's garden mirrors his grieving process as he mourns his best friend. (***Caldecott Honor Book***)

Saturday Is Swimming Day. By Hyewon Yum. Illus. by the author. Candlewick.

Yum delicately explores the fear and triumph a little girl feels when facing her Saturday swimming lessons.

See Pip Flap. By David Milgrim. Illus. by the author. Simon & Schuster/Simon Spotlight.

On pages with spare language and bold, cheerful artwork, Otto the robot tries to help Pip the mouse learn to fly. **(Geisel Honor Book)**

Thank You, Omu! By Oge Mora. Illus. by the author. Little, Brown.

When Omu makes a delicious-smelling dinner, neighbors stop by to sample soup until the pot is empty. **(Caldecott Honor Book)**

The Wall in the Middle of the Book. By Jon Agee. Illus. by the author. Dial.

A small knight assures the reader that the wall in the center of the book protects his side from the dangerous other side, but the pictures tell a different story.

You and Me. By Rebecca Kai Dotlich. Illus. by Susan Reagan. Creative Editions.

An older sibling brags about their own independence because the new baby has grabbed all Grandma's attention in this warm, realistic board book.

MIDDLE

Ana María Reyes Does NOT Live in a Castle. By Hilda Eunice Burgos. Lee & Low/Tu.

Ana María Reyes tries to win a scholarship to a prestigious New York academy, only to find herself facing obstacles. In the process, she discovers herself and the importance of family.

All that Trash: The Story of the 1987 Garbage Barge and Our Problem with Stuff. By Meghan McCarthy. Illus. by the author. Simon & Schuster/Paula Wiseman.

In 1987, a garbage barge spends five months adrift in the Atlantic, unsuccessfully attempting to find a place to dump its contents.

Aru Shah and the End of Time. By Roshani Chokshi. Disney/Hyperion.

In this story inspired by the ancient Indian epic, the Mahabharata, Aru Shah discovers she must enter the Kingdom of Death to save the world.

The Assassination of Brangwain Spurge. By M.T. Anderson and Eugene Yelchin. Illus. by Eugene Yelchin. Candlewick.

A diplomatic meeting of the Elves and the Goblins is more treacherous than expected in this brilliantly illustrated novel.

Beavers. By Rachel Poliquin. Illus. by Nicholas John Frith. HMH.

Wit and fact intertwine in an enjoyable guide to the frequently overlooked beaver.

Between the Lines: How Ernie Barnes Went from the Football Field to the Art Gallery. By Sandra Neil Wallace. Illus. by Bryan Collier. Simon & Schuster/Paula Wiseman.

Growing up, Ernie Barnes had two passions: art and football. Detailed, lively paintings help reveal how, with years of practice, he excelled in both fields.

The Book of Boy. By Catherine Gilbert Murdock. Greenwillow.

In 1350, Boy, an orphaned servant, is hired to accompany a pilgrim seeking the seven relics of St. Peter. **(Newbery Honor Book)**

The Brilliant Deep: Rebuilding the World's Coral Reefs. By Kate Messner. Illus. by Matthew Forsythe. Chronicle.

Ken Nedimyer's single-minded passion for restoring the ocean's coral reefs is reflected through riveting illustrations and accessible narrative.

Camp Panda: Helping Cubs Return to the Wild. By Catherine Thimmesh. HMH.

What does a panda suit have to do with species conservation? As this comprehensive book about a panda rehabilitation program in China reveals, quite a lot. (***Sibert Honor Book***)

Can I Touch Your Hair? Poems of Race, Mistakes, and Friendship. By Irene Latham and Charles Waters. Illus. by Sean Qualls and Selina Alko. Carolrhoda.

A school writing assignment is the catalyst for conversations around race, class, and privilege in this illustrated poetic conversation between two fifth-graders who learn to honor each other's differences.

Dragons in a Bag. By Zetta Elliott. Illus. by Geneva B. Random.

When nine-year-old Jaxon is left in the care of an eccentric old witch, he begins training as her new apprentice by leaving Brooklyn to return three dragons to a magical world.

Edison: The Mystery of the Missing Mouse Treasure. By Torben Kuhlmann. Illus. by the author. Tr. by David Henry Wilson. NorthSouth.

Naturalistic illustrations enhance this story of an intrepid mouse, who builds a submersible and makes a surprising deep-sea discovery. (***Batchelder Honor Book***)

The Eye that Never Sleeps: How Detective Pinkerton Saved President Lincoln. By Marissa Moss. Illus. by Jeremy Holmes. Abrams.

Modern illustrations and lively text combine to relate the early history of the Pinkerton Detective Agency and how they thwarted an attempt to assassinate President Abraham Lincoln.

Finding Langston. By Lesa Cline-Ransome. Holiday.

After his mother's death, lonely Langston and his emotionally distant father migrate from rural Alabama to Chicago, where he finds solace in the poetry of his namesake.

Front Desk. By Kelly Yang. Scholastic/Arthur A. Levine.

Mia not only helps manage the front desk of the motel where her immigrant Chinese parents work; she also helps keep secrets about the guests, whose immigration status puts everyone at risk.

Game Changers: The Story of Venus and Serena Williams. By Lesa Cline-Ransome. Illus. by James Ransome. Simon & Schuster/Paula Wiseman.

This engaging picture-book biography of tennis' greatest superstars focuses attention on the ways they changed the game by their attitude, power as athletes, personal strength, and relationship with each other.

Hammering for Freedom. By Rita Lorraine Hubbard. Illus. by John Holyfield. Lee & Low.

In informative paragraphs and expressive paintings, this picture book tells the story of an enslaved blacksmith who steadfastly worked to buy freedom for himself and his family.

Knights vs. Dinosaurs. By Matt Phelan. Illus. by the author. Greenwillow.

Merlin sets a new challenge for the Knights of the Round Table when he sends them back in time to battle dinosaurs.

Louisiana's Way Home. By Kate DiCamillo. Candlewick.

Louisiana finds her own inner strength when her granny abandons her in a run-down motel while they attempt to lift a curse that has plagued their family for generations.

Marcus Vega Doesn't Speak Spanish. By Pablo Cartaya. Viking.

After Marcus is suspended from school for fighting, his frustrated mother takes him and his brother to Puerto Rico for a week to reconnect with family he didn't know existed.

Martin Rising: Requiem for a King. By Andrea Davis Pinkney. Illus. by Brian Pinkney. Scholastic. Dr. King's final months of life and the emotional aftermath of his assassination are recounted in this collection of poignant poetry.

Memphis, Martin, and the Mountaintop: The Sanitation Strike of 1968. By Alice Faye Duncan. Illus. by R. Gregory Christie. Boyds Mills/Calkins Creek.

Nine-year-old Lorraine, whose daddy is a sanitation worker, recounts the two-month sanitation strike led by Dr. Martin Luther King, Jr.

Merci Suárez Changes Gears. By Meg Medina. Candlewick.

Eleven-year-old Cuban American Merci Suárez balances the demands of her multi-generational family with the challenges of being a scholarship student at a private school in Florida. **(Newbery Medal Book)**

No Small Potatoes: Junius G. Groves and His Kingdom in Kansas. By Tonya Bolden. Illus. by Don Tate. Knopf.

Junius G. Groves went from being enslaved in Kentucky to owning 500 acres in Kansas and making his fortune by growing potatoes.

Pass Go and Collect \$200: The Real Story of How Monopoly Was Invented. By Tanya Lee Stone. Illus. by Steven Salerno. Holt/Christy Ottaviano.

This picture-book history offers a spirited account of the evolution of the popular board game and the people who were involved over the years in its creation.

Otis and Will Discover the Deep: The Record-Setting Dive of the Bathysphere. By Barb Rosenstock. Illus. by Katherine Roy. Little, Brown.

Daring aquanauts Otis Barton and Will Beebe designed and dove in a leaky bathysphere that allowed them to explore 800 feet below the ocean surface.

The Parker Inheritance. By Varian Johnson. Scholastic/Arthur A. Levine.

Issues of race, bullying, and identity are interwoven in this buried-treasure mystery that spans multiple decades as tween Candice unravels a series of puzzles in her community.

Saving Winslow. By Sharon Creech. HarperCollins/Joanna Cotler.

Through vignettes of sparse text, this story follows 10-year-old Louie as he takes on the challenge of saving a fragile, newborn mini-donkey that has been rejected by its mother.

The Season of Styx Malone. By Kekla Magoon. Random/Wendy Lamb.

Despite their father's attempts to keep them safe in small town Indiana, brothers Caleb and Bobby Gene go on a wild adventure with new neighbor Styx Malone as they attempt the fabled "Escalator Trade."

So Tall Within: Sojourner Truth's Long Walk toward Freedom. By Gary D. Schmidt. Illus. by Daniel Minter. Roaring Brook.

This poetic and haunting picture-book biography reflects the larger-than-life experiences of abolitionist Sojourner Truth.

Stella Díaz Has Something to Say. By Angela Dominguez. Roaring Brook.

In this timely book about immigration, citizenship, and identity, third-grader Stella grapples with a fear of public speaking, a complicated family dynamic, and her place between cultures.

Tiger vs. Nightmare. By Emily Tetri. Illus. by the author. First Second.

Tiger relies on her friend, Monster, to keep her nightmares at bay each night, until one nightmare slips through, causing Tiger has to rethink the arrangement. (*Geisel Honor Book*)

Thirty Minutes over Oregon: A Japanese Pilot's World War II Story. By Marc Tyler Nobleman. Illus. by Melissa Iwai. Clarion.

This is the little-known story of a Japanese WWII pilot who unsuccessfully attempted to bomb the Oregon coast, and years later reconciled with Oregonians he had targeted.

The Truth as Told by Mason Buttle. By Leslie Connor. HarperCollins/Katherine Tegen.

In this poignant and powerful mystery, Mason, a seventh-grade boy who can barely read and write, finds a way to finally tell the truth about what happened the day his best friend died.

The United States v. Jackie Robinson. By Sudipta Bardhan-Quallen. Illus. by R. Gregory Christie. HarperCollins/Balzer+Bray.

Although he is well known for breaking the color barrier in baseball, Jackie Robinson went to court years earlier to integrate troops while serving in the U.S. Army.

What Do You Do with a Voice Like That? The Story of Extraordinary Congresswoman Barbara Jordan. By Chris Barton. Illus. by Ekua Holmes. Simon & Schuster/Beach Lane.

Stirring words and vibrant collage illustrations showcase the commanding voice of congresswoman Barbara Jordan, who shaped the political arena and created a powerful legacy.

When Angels Sing: The Story of Rock Legend Carlos Santana. By Michael Mahin. Illus. by Jose Ramirez. Atheneum.

Bold, folk art–style illustrations and exhilarating language come together to convey the life of groundbreaking musician Carlos Santana. (*Pura Belpré Illustrator Honor Book & Sibert Honor Book*)

OLDER

Amal Unbound. By Aisha Saeed. Penguin/Nancy Paulsen.

Unknowingly, Amal insults a corrupt but powerful man in her small Pakistani village. As retribution, he claims her as an indentured servant.

Apollo 8: The Mission that Changed Everything. By Martin W. Sandler. Illus. Candlewick.

With riveting text and stunning archival photos capturing the excitement and danger, this compelling account of the Apollo 8 mission emphasizes the turning point of the space program.

Attucks! Oscar Robertson and the Basketball Team that Awakened a City. By Phillip Hoose. Illus. Farrar.

This is a comprehensive account of the people and the events involved in the first all-Black high school basketball team that confronted segregation in Indianapolis and won.

Be Prepared. By Vera Brosgol. Illus. by Vera Brosgol and Alec Longstreth. First Second.

Brosgol comically recounts her experiences at a summer camp for Russian American kids in this graphic memoir.

Boots on the Ground: America's War in Vietnam. By Elizabeth Partridge. Illus. Viking.

People who lived through the Vietnam War discuss its history and politics in this illuminating book featuring dramatic photographs and first-person accounts.

Lifeboat 12. By Susan Hood. Simon & Schuster.

Ken Sparks drifts at sea on a lifeboat with a group of passengers after the sinking of a ship carrying evacuated British children to Canada during WWII.

The Mad Wolf's Daughter. By Diane Magras. Penguin/Kathy Dawson.

Drest sets out on a medieval quest in the Scottish highlands to rescue her five brothers and father, who have been captured by a neighboring Lord.

March Forward, Girl: From Young Warrior to Little Rock Nine. By Melba Pattillo Beals. Illus. by Frank Morrison. HMH.

This compelling memoir about Melba Pattillo's childhood focuses on her growing understanding of the impact of racism in the years leading up to her role as one of the historic Little Rock Nine.

The Night Diary. By Veera Hiranandani. Penguin/Kokila (originally Dial).

Told in the form of diary entries addressed to Nisha's dead mother, this novel traces a mixed-faith family's flight from Mirpur Khas, Pakistan, to Jodhpur, India, during the partitioning of India in 1947. **(Newbery Honor Book)**

Nowhere Boy. By Katherine Marsh. Roaring Brook.

When Max finds Syrian refugee Ahmed hiding alone in his basement in Belgium, Max decides to help Ahmed by keeping him secret and safe.

The Poet X. By Elizabeth Acevedo. HarperTeen.

Poetry provides teenage Xiomara an outlet to express herself as she struggles with her demanding mother's religious expectations, a secret romance, and self acceptance. **(Pura Belpré Author Award Book)**

The Prince and the Dressmaker. By Jen Wang. Illus. by the author. First Second.

Prince Sebastian secretly likes to wear dresses and hires talented dressmaker Frances to transform him into fashionista Lady Crystallia in this graphic novel. How long can the duo keep Sebastian's secret?

Rebound. By Kwame Alexander. Illus. by Dawud Anyabwile. HMH.

After being sent to his grandparents' house for the summer, Chuck Bell finds his groove through basketball, comics, and exploring his roots in this companion title to 2015 Newbery winner *The Crossover*.

Run for Your Life. By Silvana Gandolfi. Tr. by Lynne Sharon Schwartz. Yonder/Restless.

In alternating voices, this Italian novel tells the story of two brothers separated by Mafia violence. **(Batchelder Honor Book)**

Small Spaces. By Katherine Arden. Putnam.

Horror fans will appreciate this suspenseful tale of a field trip gone wrong, as 11-year-old Ollie races against the clock to save herself and her classmates.

Spooked! How a Radio Broadcast and The War of the Worlds Sparked the 1938 Invasion of America.

By Gail Jarrow. Illus. Boyds Mills/Calkins Creek.

This account of the infamous *War of the Worlds* radio show explores the key players and development of the broadcast as well as its aftermath. **(Sibert Honor Book)**

Something Rotten: A Fresh Look at Roadkill. By Heather L. Montgomery. Illus. by Kevin O'Malley.

Bloomsbury.

Endlessly entertaining, this is a scientific look into the world of roadkill and how it informs statistics, news, and environmental challenges.

Streetcar to Justice: How Elizabeth Jennings Won the Right to Ride in New York. By Amy Hill Hearth. Greenwillow.

The little-known story of a young African American teacher, who was thrown off a streetcar in 1854 and won a court case against the railway company, comes to life in this account.

They Call Me Güero: A Border Kid's Poems. By David Bowles. Cinco Puntos.

Güero describes his neighborhood on the Mexican border, his hard-working family, and his growing love of poetry in this novel-in-verse. **(Pura Belpré Author Honor Book)**

Tight. By Torrey Maldonado. Penguin/Nancy Paulsen.

Bryan's friendship with new friend Mike highlights the young teen's journey through peer pressure and family dynamics as he struggles to navigate the consequences of choosing between right and wrong.

The Unwanted: Stories of the Syrian Refugees. By Don Brown. Illus. by the author. HMH.

This graphic novel account of the Syrian refugee crisis examines both the horror and the hope of the world's response. **(Sibert Honor Book)**

ALL AGES

Imagine. By Juan Felipe Herrera. Illus. by Lauren Castillo. Candlewick.

Herrera uses poetry to recount his journey and invites readers to imagine their own future full of possibilities.

We Are Grateful: Otsaliheliga. By Traci Sorell. Illus. by Frané Lessac. Charlesbridge.

This authentic presentation of the contemporary life of the Cherokee people highlights the tradition of gratitude. **(Sibert Honor Book)**

2019 Notable Children's Books Committee

Maeve Visser Knoth, Phillips Brooks School, Menlo Park, Calif.

Christopher A. Brown, Free Library of Philadelphia, Penn.

Melody R. Frese, Ladue Middle School Library, Saint Louis, Mo.

Rose Garrett, Valdosta State University, Atlanta, Ga.

K. T. Horning, Cooperative Children's Book Center, University of Wisconsin-Madison

Jennifer Knight, North Olympic Library System, Port Angeles, Wash.

Amy M. Laughlin, Ferguson Library, New Haven, Conn.

Dr. Marie A. LeJeune, Western Oregon University, Monmouth

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Patty Saidenberg, New York, NY

Other ALA Awards

- Alex Award (YALSA) ([/yalsa/booklistsawards/alexawards/alexawards](http://www.ala.org/yalsa/booklistsawards/alexawards/alexawards))
- Award for Excellence in Nonfiction for Young Adults (YALSA) (<http://www.ala.org/yalsa/nonfiction>)
- Best Fiction for Young Adults (YALSA) (<http://www.ala.org/yalsa/bfya>)
- Coretta Scott King Book Awards (EMIERT) ([emiert/cskbookawards](http://www.ala.org/yalsa/emiert/emiert/cskbookawards))
- Margaret A. Edwards Award (YALSA) (<http://www.ala.org/yalsa/edwards-award>)
- Michael L. Printz Award (YALSA) (<http://www.ala.org/yalsa/printz-award>)

- Schneider Family Book Award (<http://www.ala.org/awardsgrants/schneider-family-book-award>) (ALA) (<http://www.ala.org/awardsgrants/schneider-family-book-award>)
- Stonewall Book Awards (ALA) (<http://www.ala.org/glbtrt/award/honored>)

2019 Best Fiction for Young Adults

The members of the Best Fiction for Young Adults Blogging Team are: Coordinator, **Lorraine Roussin**, San Antonio ISD, San Antonio, TX; **Megan Baird**, Yuma County Library District, San Luis, AZ; **Cathy DeCampi**, Haddonfield Public Library, Haddonfield, NJ; **Kimmie DePinto**, Thornton, CO; **Molly Dettmann**, Pioneer Library System, Moore, OK; **Lindsay Fricke**, Novi Public Library, Novi, MI; **Mary Gensel**, Lansing, IL; **Dana Hutchins**, Jackson Middle School, San Antonio, TX; **Carol Maples**, Central High School, Lufkin, TX; **Shelbie Marks**, Prescott Valley Public Library, Prescott Valley, AZ; **Cate Merlin**, Peabody Institute Library, Peabody, MA; **Cathy Rettberg**, Menlo School, Atherton, CA; **Celeste Rhoads**, The American Library in Paris, Paris France; **Jenny Zbrizher**, Morris County Library, Whippany, NJ; and with the help of administrative assistant **Molly Moore**, Bogart Library, Bogart, GA.

*denotes Top Ten (<http://www.ala.org/yalsa/2019-top-ten-best-fiction>)

*Acevedo, Elizabeth. **The Poet X**. 2018. Harper Teen. \$17.99 (9780062662804). Xiomara Batista struggles with, well, most things in her life- her mother, her twin, and her place in the Catholic church. In the past, she's used her fists to solve problems, as well as secretly writing poetry, but now it may be time to use those poems to fight back.

Adeyemi, Tomi. **Children of Blood and Bone**. 2018. Henry Holt and Co. \$18.99 (9781250170972). Eleven years ago, magic was lost and Maji, Diviners blessed by the gods, were killed by the King, including Zelle's mother a once great Reaper. Now Zelle, with the help of her brother Tzain and the rogue princess Amari, must restore magic to Orisha before it is lost forever.

Albert, Melissa. **The Hazel Wood**. 2018. Flatiron Books. \$16.99 (9781250147905). Alice and her mom Ella, receive news that Alice's grandmother, Althea, author of the gruesome Hinterland fairy tales, has died inside her estate, The Hazel Wood. When Ella is abducted from their home, Alice goes in search of The Hazel Wood and begins to wonder if Althea's twisted stories are real.

*Albertalli, Becky. **Leah on the Offbeat**. 2018. Balzer + Bray. \$17.99 (9780062643803). When it comes to music, Leah has it all together, but with other parts of her life, it's a totally different story. She's insecure about her drawing and hasn't been able to tell her best friends she's bisexual. Things get really complicated when she falls for someone she didn't expect.

Albertalli, Becky & Silvera, Adam. **What if It's Us**. 2018. Harper Teen. \$18.99 (9780062795250). After the universe brings Arthur and Ben together outside the post office, neither make a move and both leave wondering if they missed a chance at love. What if they were meant to be?

Arnold, David. **The Strange Fascinations of Noah Hypnotik**. 2018. Viking. \$17.99 (9780425288863). After being hypnotized after a party, Noah Oakman wakes up to his world turned subtly upside-down. From his best friend Alan's switch from DC to Marvel fan, to an unexplained scar on his mother's face, Noah must navigate his new life while still dealing with problems from his old one.

Barker, Michelle. **The House of One Thousand Eyes**. 2018. Annick Press. \$18.95 (9781773210711). When Lena's subversive uncle disappears without a trace in Communist East Berlin, she risks everything to find out what happened to him in this immersive historical mystery. Rife with well-crafted suspense and chilling period detail, this thrilling story will appeal to fans of dystopias and historical fiction alike.

Barter, Catherine. **Troublemakers**. 2018. Carolrhoda Lab. \$17.99 (9781512475494). Amid an ongoing bomb threat in East London, Alena starts asking questions about her mother, who died when she was a baby. When her questions are met with frustrating silence and dead-ends everywhere she looks, she becomes determined to uncover the truth behind her mother's activist past.

Boecker, Virginia. **The Assassin's Guide to Love and Treason**. 2018. Little, Brown Books for Young Readers. \$17.99 (9780316327343). In Shakespearean England, Lady Katherine vows to complete her father's failed plot to kill Queen Elizabeth I. To succeed, she dresses as the male actor and earns a part in Shakespeare's new play- specifically re-written by Toby Ellis, spy to the queen, to lure Katherine's fellow co-conspirators into the open.

*Black, Holly. **The Cruel Prince**. 2018. Little, Brown and Company. \$18.99 (9780316310277). Violently taken from her human home, Jude has struggled to navigate the dark world of the Fae. Jaded from years of being viewed as inferior for being human, she publicly challenges the wicked Prince Cardan and his friends, unleashing the prince's wrath upon her and her sisters.

Blake, Ashley Herring. **Ivy Aberdeen's Letter to the World**. 2018. Little, Brown and Company. \$16.99 (9780316515467). After Ivy's home is destroyed in a tornado, not only does she have to rebuild her home with her family, but also grapple with romantic feelings for a girl and the missing notebook with drawings depicting those feelings.

Blake, Ashley Herring. **Girl Made of Stars**. 2018. HMH Books for Young Readers. \$17.99 (9781328778239). After her twin brother is accused of rape by one of her best friends, high school junior Mara must grapple with her feelings about the who to believe, while reliving a similar incident of her own.

Bliss, Bryan. **We'll Fly Away**. 2018. Greenwillow Books. \$17.99 (9780062494276). As kids Luke and Toby dreamed of escaping their lives of poverty and abuse in a rusty crop-dusting plane they discovered and spent a summer mending. Now Luke writes hopeless letters to Toby from death row where he awaits a fate from which there is no escape.

*Caletti, Deb. **A Heart in a Body in the World**. 2018. Simon Pulse \$18.99 (9781481415200). After a traumatic incident, Annabelle manages to finish her senior year with the support of her friends and family and the comfort of routine: school, work, cross-country. One night, she reaches her breaking point and she begins to run - across the US. Along the way she becomes a reluctant activist.

Clayton, Dhonielle. **The Belles**. 2018. Freeform. \$17.99 (9781484728499). In the opulent world of Orleans, Belles possess the power to restore beauty to its cursed citizens. Camille covets the honor of being named the Queen's favorite Belle, but she soon discovers that a darkness lurks beneath Orleans' veneer of beauty, and that her position comes at a steep price.

Cole, Olivia A. **A Conspiracy of Stars**. 2018. Katherine Tegen Books. \$17.99 (9780062644213). Octavia dreams of the day she joins her parents as a whitecoat, an elite N'Terra scientist who studies the wondrous natural world of their adopted planet, Falov. However, her surprising early internship in the secret labs reveals some scientists' experiments have sinister motives threatening their tenuous peace with the Falovii.

Dao, Julie C. **Forest of a Thousand Lanterns**. 2017. Philomel. \$18.99 (9781524738297). Xifeng longs to fulfill her destiny to become empress, but the path leading to the throne may make her one of the most vicious villains in all of the stories ever told.

Daud, Somaiya. **Mirage**. 2017. Flatiron. \$18.99 (9781250126429). Under a brutal regime, Amani reads poems and dreams of a normal life. Until she is kidnapped and chosen as a body double for the ruling

class's princess.

Fleming, Candace (et all). **Fatal Throne: The Wives of Henry VIII Tell All**. 2018. Schwartz and Wade. \$18.99 (9781524716196). Six women would forever be changed by Henry the VIII's ruthless ambition. Each of them must navigate Henry's unpredictable nature, the political machinations of his court, and their own feelings concerning motherhood. Seven authors tell the story of each wife, interjecting Henry's own interpretation of the events.

Flores-Scott, Patrick. **American Road Trip**. 2018. Henry Holt & Co. \$17.99 (9781627797412). Teodoro's family is sinking fast: his father lost his job, his brother returned from Iraq with PTSD, and his parents are struggling to cope. T's sister spirits her siblings away on a road trip, taking them to reconnect with family, to heal and to find a way forward.

Foody, Amanda. **Ace of Shades**. 2018. Harlequin Teen. \$19.99 (9781335692290). When Enne's mother disappears, she heads to the City of Sin, New Reynes, determined to track her down. Enne's only clue takes her to the Iron Lord, gang leader. But the City of Sin is filled with games. To get back her mother, Enne must play, no matter the cost.

Gilbert, Kelly Loy. **Picture Us in the Light**. 2018. Disney-Hyperion. \$17.99 (9781484726020). Danny knows his future holds a scholarship and a career as an artist. However, he doesn't know how his best friend will fit into that future, or why his father lost his job. When he starts digging into his parents' past, Danny discovers secrets that threaten his family and future.

Grimes, Nikki. **Between the Lines**. 2018. Nancy Paulsen Books. \$17.99 (9780399246883). Aspiring journalist Darrian Lopez signs up to participate in a poetry slam at his school. Using their poetry, students piece together their stories and Darrian learns that though they may be different, they are all just trying to do their best with the life they have been given.

Hand, Cynthia, Brodi Ashton, and Jodi Meadows. **My Plain Jane**. 2018. Harper Teen. \$17.99 (9780062652775). Jane Eyre sees ghosts which attracts the attention and a job offer from a supernatural investigator. However, Jane accepts a governess position with the mysterious Mr. Rochester which leads her best friend and aspiring author, Charlotte Bronte, to join in a mission to solve a mystery and save Jane.

Hardinge, Frances. **A Skinful of Shadows**. 2017. Amulet Books. \$19.99 (9781419725722). This dark historical fantasy pits a girl named Makepeace against her birth father's ominous family and their strange birthright. The Felmottes harbor dark secrets, but Makepeace possesses a secret of her own: a ghost which suffuses her with the ferocity of spirit to flee them and fight for her life.

Hesse, Monica. **The War Outside**. 2018. Little, Brown Books for Young Readers. \$17.99 (9780316316699). Held prisoners of war by the country they both love, two teenage girls, one Japanese-American and the other German-American, forge an unlikely and dangerous friendship. While World War II wages a world away, Haruko and Margot fight their own battles for survival inside a Texas family internment camp.

Hill, Will. **After the Fire**. 2018. Sourcebooks Fire. \$17.99 (9781492669791). After a government raid on The Lord's Legion, a secretive religious commune in the Texas desert, 17 year-old Moonbeam finds herself in the outside world for the first time and must confront the destructive lies that tore apart her family.

Holczer, Tracy. **Everything Else in the Universe**. 2018. G. P. Putnam's Sons. \$16.99 (9780399163944). When Lucy's injured father returns home from Vietnam, the war which had until then felt far away and abstract becomes very real, and Lucy begins to comprehend its effect on everyone around her.

Hutchinson, Shaun David. **The Apocalypse of Elena Mendoza**. 2018. Simon Pulse. \$17.99 (9781481498548). Despite years as a social outcast due to her virgin birth, Elena believes the inanimate voices she hears foretells an extraordinary destiny. Even she could not have foreseen her healing a dying gunshot victim in the Starbucks parking lot setting her on a course to potentially save the world.

*Ireland, Justina. **Dread Nation**. 2018. Balzer + Bray. \$18.99 (9780062570604). In post-Civil War America where the dead have refused to stay buried, Jane has spent her entire life training in a special combat school for African American children, preparing to save the lives of the wealthy. When entire families go missing, she learns her combat skills are incredibly useful- against both the dead and the living.

*Jackson, Tiffany D. **Monday's Not Coming**. 2018. Katherine Tegen Books. \$17.99 (9780062422675). When Claudia's best friend Monday suddenly disappears without a trace, Claudia knows something is up and will not stop until she uncovers the possible horrifying truth.

Johnson, Maureen. **Truly Devious**. 2018. Katherine Tegen Books. \$17.99 (9780062338051). Murder mystery obsessed Stevie transfers to Ellingham Academy, a remote boarding school with its own unsolved crime that she intends to solve. But a tragic death on campus forces her to put all of her deductive power to work to discover if one of her classmates could be a murderer.

Kaplan, Ariel. **We Regret to Inform You**. 2018. Knopf Books for Young Readers. \$17.99 (9781524773700). Rejected by every college she applied to, top student Mischa Abramavicius and her best friend Nate join forces with an eccentric trio of hacker girls to uncover what went wrong. This is a smart, entertaining, and hilarious romp through the politics of the college admissions process at an elite school.

*Khorram, Adib. **Darius the Great is Not Okay**. 2018. Dial Books. \$17.99 (9780525552963). Darius is not okay with his impossible-to-please father, his mother and sister's shared Farsi sisterhood, and his "Fractional Persian" heritage. A family trip to his mother's homeland means learning more about his family, himself, and the many forms love can take.

Killeen, Matt. **Orphan Monster Spy**. 2018. Viking. \$18.99 (9780451478733). After her mother's death, Jewish teen Sarah avoids capture by the SS thanks to a British spy named Captain Floyd. Jeremy obtains a false identity for Sarah and convinces her to help him infiltrate the home of one of Hitler's nuclear scientists, Hans Schafer, by befriending Schäfer's daughter.

Kisner, Adrienne. **Dear Rachel Maddow**. 2018. Feiwel & Friends. \$17.99 (9781250146021). After starting out as a class assignment, but turning into an unsent journal, Brynn Harper begins emailing Rachel Maddow as she works through her feelings while dealing with the death of her brother and a heated school election.

Kristoff, Jay. **Lifelike**. 2018. Knopf Books for Young Readers. \$18.99 (9781524713928). After a public display of her robot-destroying abilities, Evie flees for her life. On the run, she stumbles upon a "Lifelike" android that holds the secrets to her past. When the fight of human versus machine ensues, she fights to survive, and to find the truth.

Lee, Mackenzi. **The Lady's Guide to Petticoats and Piracy**. 2018. Katherine Tegen Books. \$18.99 (9780062795328). Felicity Montague wants nothing more than to enroll in medical school, but is limited by her gender. Therefore, she must obviously traverse the European continent, trust a mysterious young lady and a former best friend, and command a pirate ship, all in the name of following her dreams.

Legrand, Claire. **Sawkill Girls**. 2018. Katherine Tegen Books. \$17.99 (9780062696601). Local legend warns evil lurks on Sawkill Rock where girls vanish without a trace. As the disappearances escalate, three

girls stumble into an ancient crusade. Loss of a loved one joins newcomer Marion and outsider Zoey in a search for answers which lead them to beautiful Val and her secrets.

Leno, Katrina. **Summer of Salt**. 2018. Harper Teen. \$17.99 (9780062493620). Descendants of a magical family, twins Georgina and Mary, help their mother keep up the Inn. Business booms during the summer when the "Birdheads" come to watch the rare bird, Annabella, in her natural environment. When the bird doesn't appear, the island erupts into chaos.

Lucier, Makila. **Isle of Blood and Stone**. 2018. HMH Books for Young Readers. \$17.99 (9780544968578). Old wounds are reopened when a mysterious map is brought to the royal palace, sending Elias, Mercedes, and King Ulises on a quest to try and solve the mystery of the kidnapping and murder of Ulises' two older brothers eighteen years earlier.

Mather, Janice Lynn. **Learning to Breathe**. 2018. Simon & Schuster Books for Young Readers. \$18.99 (9781534406018). Indy is sent away from home to live with relatives in the city so that she doesn't fall into the same lifestyle as her mother, but trouble finds Indy. She learns to carve out a future without letting her past and the choices of others dictate who she will be.

McCullough, Joy. **Blood Water Paint**. 2018. Dutton Books for Young Readers. \$17.99 (9780735232112). Artemisia Gentileschi at 17 is already a brilliant painter. She wants to become better and escape her father's control. A man who she hopes will save her, instead is her worst nightmare. Artemisia must decide either to remain silent or to speak the truth, just as her heroines did.

McLemore, Anna-Marie. **Blanca and Roja**. 2018. Feiwel and Friends. \$17.99 (9781250162717). Two sisters fight to escape the magic of a family curse dooming one of them while two boys embrace the enchantment saving them from lives they can't bear. Steeped in Latino folklore, their heartbreaking stories entwine in this contemporary retelling of "Snow-White and Rose-Red" and "Swan Lake."

Miller, Samuel. **A Lite Too Bright**. 2018. Katherine Tegen Books. \$17.99 (9780062662002). Arthur Louis Pullman the Third, the troubled grandson of a famously reclusive Beat-generation writer, sets out on a cross-country train journey to discover the truth behind the last week of his grandfather's life. Puzzles and poetry lead to self-discovery in this dynamic incarnation of the great American road trip novel.

*Mills, Emma. **Foolish Hearts**. 2017. Henry Holt & Co. \$17.99 (9781627799379). When Claudia finds herself ensnared in a school production of *A Midsummer Night's Dream*, she must also navigate the elaborate politics of her private girls' school, her budding friendship with prickly Iris, and a charming, tentative romance in addition to family drama in this funny, feel-good contemporary novel.

Mitchell, Sandra. **All Out: The No-Longer Secret Stories of Queer Teens Throughout the Ages**. 2018. Harlequin Teen. \$18.99 (9781335470454). Seventeen short stories written by different authors illustrate the experiences of queer teens throughout history.

Moore, David Barclay. **The Stars Beneath Our Feet**. 2017. Knopf Books for Young Readers. \$16.99 (9781524701246). Reeling from the shooting death of his older brother, 12-year-old Lolly finds solace in building fantastical, epic cityscapes out of Lego blocks. His Lego building attracts the attention of the kids in his Harlem after-school program and beyond, while the violence of the streets threatens to pull him in another direction.

*Norton, Preston. **Neanderthal Opens the Door to the Universe**. 2018. Disney Hyperion. \$17.99 (9781484790625). Aaron is the star of Happy Valley High School until he suffers a concussion after a

boating accident, or receives a visit from God, depending on who you believe. God gives him a to-do list and tells him he will need the help of Cliff Hubbard (a.k.a. Neanderthal).

Nwaubani, Adaobi Tricia. **Buried Beneath the Baobab Tree**. 2018. Katherine Tegen Books. \$17.99 (9780062696724). A Nigerian teen looks forward to the day when she will leave her village to pursue a university degree, but her life changes drastically when she and her schoolmates are kidnapped by Boko Haram.

Oh, Ellen and Chapman, Elsie (editors). **A Thousand Beginnings and Endings**. 2018. Greenwillow Books. \$17.99 (9780062671158). Fifteen young adult authors of Asian descent weave magical stories inspired by their favorite childhood Asian myths and legends. Ranging from traditional stories to contemporary to science fiction and populated with everything from goddesses to androids and vampires, there is something for everyone.

Oliver, Lauren. **Broken Things**. 2018. Harper Collins. \$18.99 (9780062224132). Five years ago Mia and Brynn were blamed for the ritualistic killing of their best friend. Now, new evidence has come to light that could solve the murder and finally clear their names.

*Plozza, Shivaun. **Frankie**. 2017. Flatiron Books. \$17.99 (9781250142993). Frankie Vega's half-brother suddenly presents himself, and just as she begins to get to know him, he disappears. Frankie is the only one who seems worried about his whereabouts so she sets out to find him.

Ramos, Nonieqa. **The Disturbed Girl's Dictionary**. 2018. Carolrhoda Lab. \$17.99 (9781512439762). Fierce in her perseverance and flawed in nature, Macy's ability to survive in her toxic environment has secured her the label of the disturbed girl at school. She documents her experiences in her self-made dictionary that shows the toxic and tragic events that have shaped who she is today.

Savage, Kim. **In Her Skin**. 2018. Farrar, Straus and Giroux. \$17.99 (978-0374308001). Jo Chastain is attempting her biggest con yet- impersonating Vivi Weir, who vanished 9 years ago. Jo is welcomed with open arms into the Lovecraft household, the family of Vivi's best friend Temple, the last person to see Vivi before she disappeared- but the Lovecrafts have secrets of their own.

Schwab, Victoria. **City of Ghosts**. 2018. Scholastic. \$17.99 (9781338111002). After briefly dying, Cassidy can see ghosts, including her friend Jacob. When her parents receive a ghost hunting television job, the family go to Edinburgh, Scotland. There, Cassidy meets Lara, another person who can see ghosts. While learning about her abilities, Cassidy also runs into a ghost that eats souls.

Shusterman, Neal and Jarrod. **Dry**. 2018. Simon & Schuster BFYR. \$18.99 (9781481481960). When the water in the tap runs dry, Southern California is forced into a state of emergency. Neighbors turn on one another, and suburbia is a hot zone for "water-zombies." When Alyssa's parents go missing, she must do whatever it takes in order to survive the Tap-Out.

Smith, Heather. **The Agony of Bun O'Keefe**. 2017. Penguin Teen. \$16.99 (9780143198659). Fourteen-year-old Bun O'Keefe leaves home one day after her negligent hoarder mother tells her to get out. She hitchhikes to the nearest city, where she's taken in by a ragtag group of loveable housemates living in "temporary accommodations," who teach her the real value of the family you make for yourself.

Stamper, Vesper. **What the Night Sings**. 2018. Knopf Books for Young Readers. \$19.99 (9781524700386). Saved by music and surviving Aushwitz as a member of the Women's Orchestra, liberated Gerta Rausch works to reclaim her voice and find a new life for herself, but is still haunted by what happened in the concentration camp.

Steiger, A.J. **When My Heart Joins the Thousand**. 2018. Harper Teen. \$17.99 (9780062656476).

Seventeen-year-old Alvie lives by herself, works a full-time job at the zoo, and is waiting to turn eighteen so she can be legally emancipated. Living with Asperger's, Alvie prefers to spend time with animals until she meets Stanley, with whom she starts to fall in love.

Stone, Nic. **Odd One Out**. 2018. Crown. \$17.99 (9781101939536). Courtney has been in love with his best friend Jupiter for years. When new girl Rae comes along, both friends find themselves interested in her, and confused about their feelings for each other.

Summers, Courtney. **Sadie**. 2018. Wednesday Books. \$17.99 (9781250105714). Two sisters: one dead, one missing. This gripping thriller for mature readers unfolds in alternating chapters: one thread follows 19-year-old Sadie as she hunts down her sister's murderer, while the other follows her trail via a true-crime podcast that attempts to uncover what happened before she herself disappeared.

Thomas, Kara. **The Cheerleaders**. 2018. Delacort Press. \$15.99 (9781524718329). Five years after the deaths of five Sunnybook cheerleaders Monica, the sister of one of them, decides to look further into their deaths. She uncovers information that leads her to believe there is a deeper, darker truth to what happened. What really transpired all those years ago?

Thomas, Leah. **When Light Left Us**. 2018. Bloomsbury USA Childrens. \$17.99 (9781681191812). Something infected the Vasquez kids that night in the canyon forming a bond between them, filling the void their father's abandonment left, and leaving their mother an outsider. However, when It suddenly leaves taking the best pieces of them, can they ever become whole and a family again?

Van Draanen, Wendelin. **Wild Bird**. 2017. Knopf Books for Young Readers. \$17.99 (9781101940440). Out-of-control Wren is shipped off to a wilderness survival camp for troubled teens after her parents reach their wits' end with her. Despite her best efforts to remain uncooperative, the stark reality of survival in the desert gradually forces her to face her inner demons.

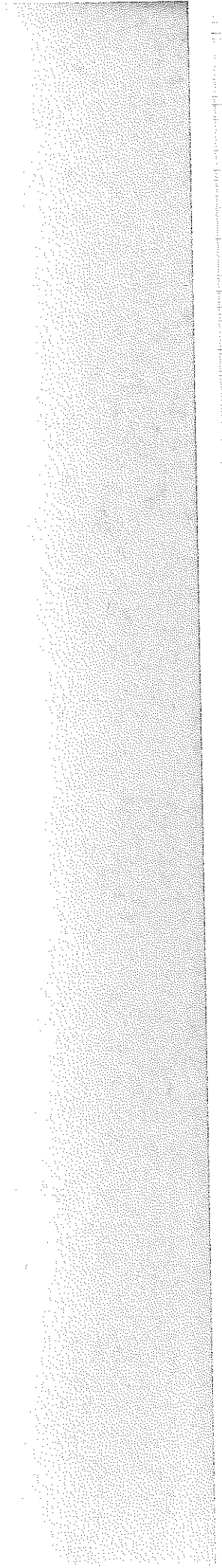
Young, Adrienne. **Sky in the Deep**. 2018. Wednesday Books. \$17.99 (9781250168450). As a fierce Aska warrior, Eelyn fights an ancient blood feud against the enemy Rikki clan to honor her god and avenge her brother's death at their hands. However, when Eelyn becomes a prisoner after spotting the presumed dead Iri fighting beside the Rikki, her world forever changes.

White, Kiersten. **The Dark Descent of Elizabeth Frankenstein**. 2018. Delacorte Press. \$18.99 (9780525577942). Elizabeth has spent her life changing herself to please others to survive. When she is offered as a gift the boy Victor Frankenstein, she believes her life will change for the better. But when a monster appears that begins to kill, Elizabeth's world begins to fall apart.

Woodson, Jacqueline. **Harbor Me**. 2018. Nancy Paulsen. \$17.99 (9780399252525). Six kids in a special school are sent to a room to talk to one another weekly. As the year goes on, they all open up their deepest fears, hopes, and dreams.

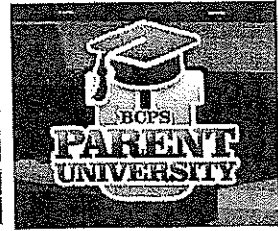
Zoboi, Ibi. **Pride**. Balzer + Bray. \$17.99 (9780062564047). In this classic retelling, Zuri Benitez meets the handsome Darius Darcy, the rich boy who moved in across the street in her Bushwick neighborhood. Despite their good looks, Zuri sees the Darcys as a threat to her way of life and her beloved Bushwick.

MATH



PARENT UNIVERSITY PRESENTS

What families need to know about...



NUMBER CONCEPTS

The study of mathematics is about numbers and their relationships. It is more than just saying the numbers from 1 to 10. Children reflect their understanding of number concepts when they sort their toys, identify shapes and patterns, and correctly identify colors. Relationship words like *over*, *under*, *more*, *less*, and *equal*, along with positional words like *first*, *second*, *third*, *next*, and *last* are also indicators of mathematical understanding. Math concepts can be part of everyday activities.

Number Recognition and Counting

Counting and recognizing numbers and their quantities are skills young children develop. Say the number names as you count items with your child. Children learn concepts best when given an opportunity to have “hands-on” experiences. Encourage your child to practice counting and naming numbers when picking up toys, setting the table, or grocery shopping.

Counting Sets of Objects

Counting sets of objects uses the skill of one-to-one correspondence. One-to-one correspondence involves saying the number name series, beginning with 1, and pointing to a different object as each number name is spoken. Help your child look for sets of objects to count when you are reading, shopping, cooking, or playing.

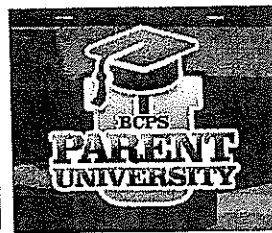
How You Can Help Your Child at Home

1. Count everything, the number of steps from the car to the front door, the buttons on a coat, the food on your plate.
2. Make a number book. Write a number on each page, and let your child draw or glue on the correct number of items.
3. Identify numerals by pointing to the numbers and saying them as you dial the telephone. When your child is ready, let your child learn to dial a family member’s telephone number.

4. Keep a calendar where your child can see it. Count the days until a special event. Talk about the days when routine events occur.
5. Ask your child to help you match and count the pairs of socks when you do laundry. Very young children can help you sort the socks into piles according to who wears them.
6. Count sets of items needed to set a table (three forks, three napkins).
7. Count out sets of snacks for friends and family members; for example: *“Let’s give everyone two cookies and four pretzels.”*
8. Help your child look for sets of objects to count when you are reading, shopping, cooking, or playing.
9. Read counting books.

PARENT UNIVERSITY PRESENTS

What families need to know about ...



THINKING ALGEBRAICALLY

Did you know that your child has been doing algebra since kindergarten? Thinking about how numbers work is called **thinking algebraically**. Let your children see you working with numbers and include your child, if appropriate. Below are some concepts that your child will be taught under the heading of algebraic thinking.

Patterns

When something happens over and over, we say there is a **pattern**. **Patterns** are all around us – in music, art, science, math and everyday living. Young children begin to identify patterns in the world around them. They begin hearing patterns in language and music as well as making patterns with their bodies, by playing such games as Simon Says. With many experiences, young children will see that patterns are predictable and can go on forever.

Patterns can be both numeric (using numbers) and non-numeric. The **core** of the pattern is what is repeated and the **element** is each part of the pattern. In the pattern *moon, 2 stars, sun; moon, 2 stars, sun, etc.*, the **core** is *moon, 2 stars, sun* and it has three **elements** *moon, star and sun*.

Skip Counting

Skip counting means that you skip a number, or several numbers, as you count. If you are counting by 2s, you would count 2,4,6,8, etc. skipping 1,3,5,7, etc. You can **skip count** by 2, 5 or 10.

Functions

The relationships between two numbers is called a **function**. A **function table** lists pairs of numbers and how they relate to each other when a specific action is taken. The action is called the **rule** of the table. For any

input, there is only one possible output. Here is an example of a **function table**:

Rule: +4	
Input	Output
0	4
1	5
2	6
3	7
4	8

Equations

An equation is a number sentence that shows that two amounts are **equal** (the same). An **equation** must be balanced. There must be the same amount on each side of the number sentence. To show that each side is the same, an **equal sign (=)** is used.

How You Can Help Your Child at Home

To help your child understand **patterns**, consider the following:

- When your child is eating a cereal that has different colors or shapes, help your child create a **pattern** – 2 green, 4 red, 2 green, 4 red, etc. The **core** is 2 green, 4 red and the **elements** are the red and green cereal. You might also use the following elements – star, moon, clover to make the core of - 1 star, 2 moons, 4 clover.
- Have your child rename the same pattern using letters (1 knife, 2 forks, 4 spoons; 1 knife, 2 forks, 4 spoons ...or, A, B B, C C C C; A, B B, C C C C...)
- When taking a walk around the block, discuss with your child interesting arrangements of objects or patterns that appear in the environment. Encourage your child to point out what he/she is noticing.
- On your walk, help your child make their own pattern – walk, walk, hop, clap; walk, walk, hop, clap, etc.
- Help your child find patterns around the house – in wallpaper, in the fabric of their clothes or furniture.

To help your child understand the concept of **skip counting**, try the following:

- When an older child is learning about money, they learn that 1 nickel equals 5 pennies. They can then skip count a group of 5 nickels (5, 10, 15, 20, 25) to equal a quarter. Or, they could skip count 10 dimes to equal \$1.00. This exercise also is a great way to reinforce the concept of an **equation**.

To help your child understand what a **function** is and how to use a **function table**:

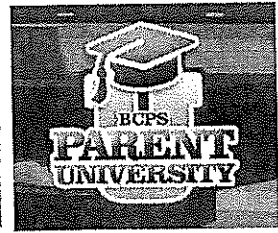
- Talk with your child about **functions** and using a **function table**, cover the numbers in the output column and have the child “fill in the blank”.

To help your child understand about **equations**, try the following:

- Have your child use objects around the house to form equations: 4 red blocks + 2 blue blocks + 1 green block = 7 blocks; or, 2 cans of peas + 3 cans of soup = 5 cans in all.
- Use these same household objects to create inequalities where both sides are not equal and have your child tell you if they are equations and, if not, why not and then have them turn the non-equations into equations.

PARENT UNIVERSITY PRESENTS

What families need to know about...



PROBLEM-SOLVING PROCESS AND STRATEGIES

Parents, below you will find the process and strategies being used in our schools to help students solve math problems.

Problem-Solving Process

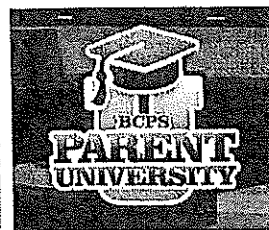
- Read and understand.
 - What is the question?
 - Highlight important information.
- Plan and solve.
 - Choose the operation.
 - Write a number sentence.
 - Find the solution.
- Look back and check.
 - Is the answer reasonable?

Problem-Solving Strategies

- Act it out.
- Solve a simpler problem.
- Make a table.
- Make a graph.
- Draw a picture.
- Make a model.
- Use objects.
- Make an organized list.
- Look for a pattern.
- Use logical reasoning.
- Try, check, and revise.
- Work backwards.
- Write a number sentence.

PARENT UNIVERSITY PRESENTS

What families need to know about...



MATHEMATICS AS PROBLEM SOLVING, COMMUNICATION, AND REASONING

Helping children learn to solve problems, communicate mathematically, and demonstrate reasoning abilities are fundamental to learning mathematics. These skills support a child's understanding of and interest in math concepts and thinking.

To succeed in math a student must:

- Be a Problem Solver,
- Communicate Mathematically, and
- Demonstrate Reasoning Ability.

A problem solver is someone who questions, investigates, and explores solutions to problems. Problem solvers understand that there may be different ways to arrive at an answer; consider many different answers to a problem, and apply math to everyday situations. You can encourage children to be good problem solvers by involving them in family decisions and using math to find the solutions.

To communicate mathematically students use words, numbers, or mathematical symbols to explain situations. They talk, write, and use pictures to explain how they arrived at an answer. Help children learn to communicate mathematically by asking them to explain a math problem or answer. Have children write about or draw a picture of how they arrived at an answer to a problem.

Reasoning ability means thinking logically, seeing similarities and differences, making choices based on those differences, and considering relationships. When encouraging children to explain their answers to math problems, listen to understand their reasoning.

Tips to Know

- 1. Problems Can Be Solved in Different Ways.** While some problems in math may have only one solution, there may be many ways to get the right answer. Learning math is **not only finding the correct answer**, it's also a process of solving problems and applying what you have learned to new problems.
- 2. Wrong Answers Can Help!** While accuracy is always important, a wrong answer could help discover what your child may not understand. The wrong answer tells you to look further, to ask questions, and to see what the wrong answer is saying about the child's understanding.
- 3. Doing Math in Your Head is Important.** Have you ever noticed that today very few people take their pencil and paper out to solve problems in the grocery store, restaurant, department store, or in the office? Instead, most people estimate in their heads or use calculators. Even when using calculators, and people must put in the correct information and know if the answer is reasonable. Mental math helps people determine if the answer makes sense and is reasonable.
- 4. It's Okay to Use a Calculator.** It's okay to use calculators and computers to solve math problems. In fact, students are taught to use calculators at young ages and are often required to use them to do homework and take tests. The Scholastic Assessment Test (SAT), for example, permits the use of calculators for its timed tests.

How You Can Help Your Child at Home

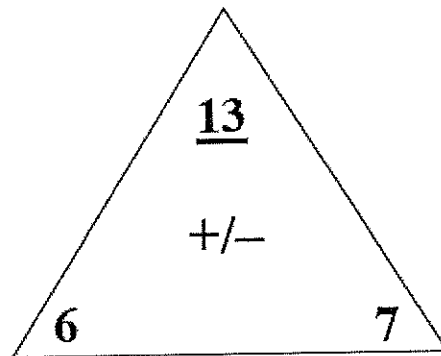
- Think out loud while you calculate to model your mathematical thinking.
- Involve children in making a shopping list. Ask them to estimate how much milk or juice will be needed for a week. Have them explain their reasoning and justify their prediction. Have them compare their estimation with the actual amount purchased. Ask them to explain the difference.
- Involve children in real life situations that require measurement. For example, ask children to assist with measuring for a fence, rug, or paint. Have children determine the unit of measure to use and explain the process they use to solve the problem.
- Look for opportunities to have children apply math to other curriculum content. For example, when studying the westward movement in American History, discuss weight and measurement as related to the provisions that the early settlers took with them.



ADDITION AND SUBTRACTION TRIANGLE FLASHCARDS

Use the attached triangular flashcards to practice both addition and subtraction facts.

EXAMPLE:



To practice addition, place your thumb over the underlined number on the triangle and hold the card for your child to see. Your child should tell you the sum (answer) of the remaining numbers at the base of the triangle. In our example, you would cover the 13. Your child would say, "Six plus seven equals thirteen" or "seven plus six equals thirteen."

To practice subtraction, place your thumb over one of the numbers at the base of the triangle and hold the card for your child to see. Let your child tell you a subtraction fact using the remaining two numbers. Then have your child give you the difference (answer). In our example, you could cover the 6. Your child would say, "Thirteen minus seven equals six."

BALTIMORE COUNTY PUBLIC SCHOOLS
ADDITION AND SUBTRACTION
TRIANGLE FLASHCARDS

ADDITION AND SUBTRACTION
TRIANGLE FLASHCARDS

The flashcards are arranged in a 3x4 grid. Each card is a triangle with a double-line border. The top vertex contains a number, the bottom vertex contains a number, and the right vertex contains a number. The operation symbol (+/-) is in the center. The cards are as follows:

0	1	0	0
+	-	+	-
1	4	5	7
0	0	0	0
3	0	6	0
+	-	+	-
2	2	9	9
0	0	0	6
0	0	0	8
+	-	+	-
0	0	0	0

Zeros Cards



BALTIMORE COUNTY PUBLIC SCHOOLS
 ADDITION AND SUBTRACTION
 TRIANGLE FLASHCARDS
 TRIANGLE FLASHCARDS

1 +/- 2 1 +/- 3
 1 +/- 3 1 +/- 4
 1 +/- 4 1 +/- 5
 1 +/- 5 1 +/- 6
 1 +/- 6 1 +/- 7
 1 +/- 7 1 +/- 8

Ones Cards

BALTIMORE COUNTY PUBLIC SCHOOLS
 ADDITION AND SUBTRACTION
TRIANGLE FLASHCARDS
 TRIANGLE FLASHCARDS

Twos Cards

BALTIMORE COUNTY PUBLIC SCHOOLS
 ADDITION AND SUBTRACTION
 TRIANGLE FLASHCARDS
 TRIANGLE FLASHCARDS

3 $\overline{4}$ \pm/\mp 1 3 $\overline{9}$ \pm/\mp 3
 3 $\overline{5}$ \pm/\mp 2 3 $\overline{6}$ \pm/\mp 9
 3 $\overline{10}$ \pm/\mp 7 3 $\overline{8}$ \pm/\mp 3
 3 $\overline{11}$ \pm/\mp 3 3 $\overline{8}$ \pm/\mp 6
 3 $\overline{3}$ \pm/\mp 0 3 $\overline{12}$ \pm/\mp 3

Threes Cards

BALTIMORE COUNTY PUBLIC SCHOOLS
 ADDITION AND SUBTRACTION
 TRIANGLE FLASHCARDS

TRIANGLE FLASHCARDS

4 +/− 5

1 +/− 8

4 +/− 12

8 +/− 11

4 +/− 4

0 +/− 4

3 −/+ 7

4 −/+ 9

6 −/+ 10

4 −/+ 6

9 −/+ 9

4 −/+ 13

4

2

4

5

Fours Cards

BALTIMORE COUNTY PUBLIC SCHOOLS
 ADDITION AND SUBTRACTION
 TRIANGLE FLASHCARDS
 TRIANGLE FLASHCARDS

$\begin{array}{c} 5 \\ + \\ 1 \\ \hline 6 \end{array}$	$\begin{array}{c} 5 \\ - \\ 1 \\ \hline 4 \end{array}$	$\begin{array}{c} 5 \\ + \\ 5 \\ \hline 10 \end{array}$	$\begin{array}{c} 5 \\ - \\ 5 \\ \hline 0 \end{array}$
$\begin{array}{c} 8 \\ + \\ 5 \\ \hline 13 \end{array}$	$\begin{array}{c} 8 \\ - \\ 5 \\ \hline 3 \end{array}$	$\begin{array}{c} 5 \\ + \\ 5 \\ \hline 10 \end{array}$	$\begin{array}{c} 5 \\ - \\ 5 \\ \hline 0 \end{array}$
$\begin{array}{c} 9 \\ + \\ 5 \\ \hline 14 \end{array}$	$\begin{array}{c} 9 \\ - \\ 5 \\ \hline 4 \end{array}$	$\begin{array}{c} 5 \\ + \\ 5 \\ \hline 10 \end{array}$	$\begin{array}{c} 5 \\ - \\ 5 \\ \hline 0 \end{array}$
$\begin{array}{c} 7 \\ + \\ 5 \\ \hline 12 \end{array}$	$\begin{array}{c} 7 \\ - \\ 5 \\ \hline 2 \end{array}$	$\begin{array}{c} 5 \\ + \\ 5 \\ \hline 10 \end{array}$	$\begin{array}{c} 5 \\ - \\ 5 \\ \hline 0 \end{array}$

Fives Cards

BALTIMORE COUNTY PUBLIC SCHOOLS
 ADDITION AND SUBTRACTION
 TRIANGLE FLASHCARDS
 TRIANGLE FLASHCARDS

$\begin{array}{c} 9 \\ + \\ 1 \\ \hline 10 \end{array}$	$\begin{array}{c} 9 \\ - \\ 2 \\ \hline 7 \end{array}$
$\begin{array}{c} 6 \\ + \\ 6 \\ \hline 12 \end{array}$	$\begin{array}{c} 9 \\ - \\ 6 \\ \hline 3 \end{array}$
$\begin{array}{c} 8 \\ + \\ 6 \\ \hline 14 \end{array}$	$\begin{array}{c} 9 \\ - \\ 2 \\ \hline 7 \end{array}$
$\begin{array}{c} 9 \\ + \\ 4 \\ \hline 13 \end{array}$	$\begin{array}{c} 9 \\ - \\ 6 \\ \hline 3 \end{array}$
$\begin{array}{c} 6 \\ + \\ 9 \\ \hline 15 \end{array}$	$\begin{array}{c} 9 \\ - \\ 6 \\ \hline 3 \end{array}$
$\begin{array}{c} 0 \\ + \\ 9 \\ \hline 9 \end{array}$	$\begin{array}{c} 9 \\ - \\ 6 \\ \hline 3 \end{array}$

Sixes Cards

BALTIMORE COUNTY PUBLIC SCHOOLS
 ADDITION AND SUBTRACTION
 TRIANGLE FLASHCARDS
 TRIANGLE FLASHCARDS

7 1 8
+/-

7 1 11
+/-

7 1 15
+/-

8 1 14
+/-

7 1 7
+/-

0 1 7
+/-

3 2 10
+/-

7 2 9
+/-

9 2 13
+/-

7 2 12
+/-

6 2 16
+/-

7 2 16
+/-

Sevens Cards

The flashcards are arranged in a grid with 4 rows and 3 columns. Each card is a triangle with a horizontal base and a vertical height. The top vertex contains a sum or difference, and the two bottom vertices contain the addends or minuends. The cards are as follows:

8	2	10	8	3	11
8	1	9	8	8	14
8	8	15	9	5	13
7	4	12	8	8	16
8	8	8	8	6	17
0	8	8	8	8	8

Eights Cards

BALTIMORE COUNTY PUBLIC SCHOOLS
 ADDITION AND SUBTRACTION
 TRIANGLE FLASHCARDS
 TRIANGLE FLASHCARDS

The flashcards are arranged in two columns and nine rows. Each card is a triangle with a horizontal line across its middle. The numbers and signs are as follows:

Row	Left Card	Right Card
1	6 +/- <u>10</u> 1	3 +/- <u>12</u> 6
2	4 +/- <u>13</u> 9	6 +/- <u>11</u> 9
3	6 +/- <u>14</u> 5	2 +/- <u>15</u> 6
4	7 +/- <u>16</u> 9	6 +/- <u>18</u> 8
5	9 +/- <u>6</u> 0	6 +/- <u>17</u> 9

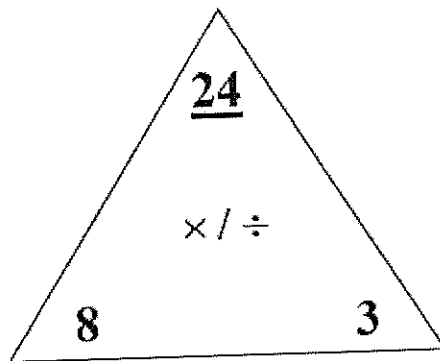
Nines Cards



MULTIPLICATION AND DIVISION TRIANGLE FLASHCARDS

Use the attached triangle flashcards to practice both multiplication and division facts.

EXAMPLE:

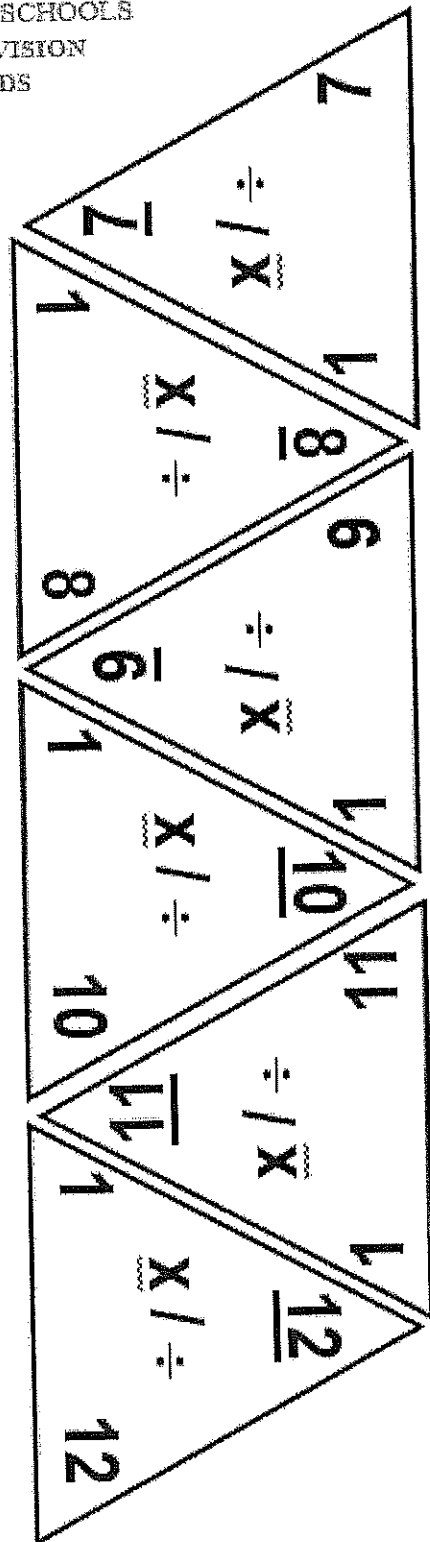
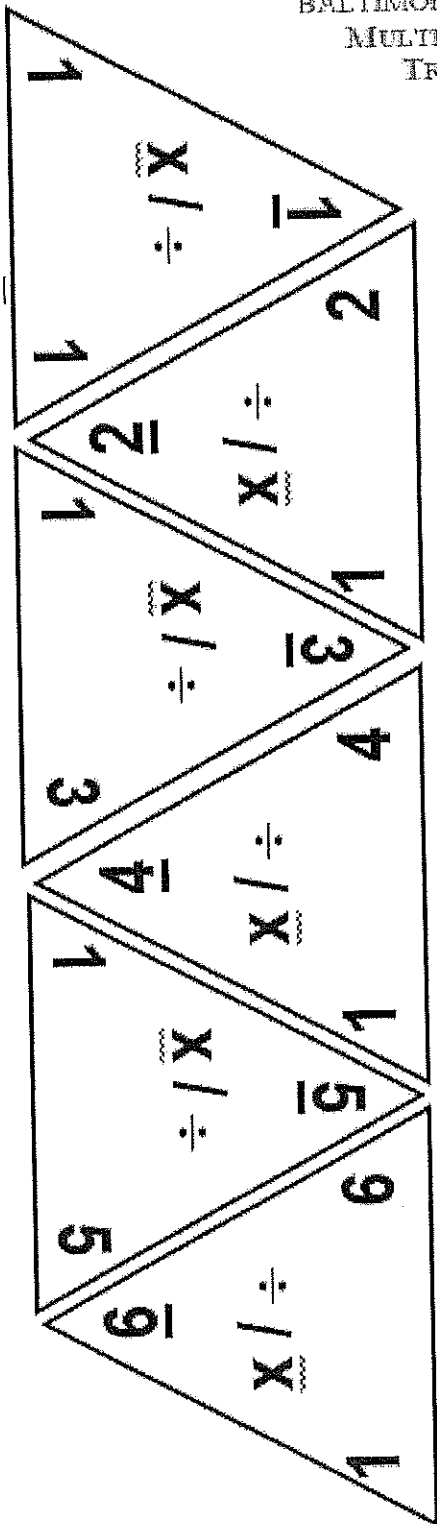


To practice multiplication, place your thumb over the underlined number on the triangle and hold the card for your child to see. Your child should tell you the product (result of multiplying) of the remaining numbers at the base of the triangle. In our example, you would cover the 24. Your child would say, "Eight times three equals twenty-four."

To practice division, place your thumb over one of the numbers at the base of the triangle and hold the card for your child to see. Let your child tell you a division fact using the remaining two numbers, and then have your child give you the quotient (answer). In our example, you could cover the 8. Your child would say, "Twenty-four divided by three equals eight."

BALTIMORE COUNTY PUBLIC SCHOOLS

BALTIMORE COUNTY PUBLIC SCHOOLS
 MULTIPLICATION AND DIVISION
 TRIANGLE FLASHCARDS



BALTIMORE COUNTY PUBLIC SCHOOLS
 MULTIPLICATION AND DIVISION
 TRIANGLE FLASHCARDS

2	2	2	2	2	2
$\overline{14} \div 2$	$\overline{16} \div 2$	$\overline{18} \div 2$	$\overline{20} \div 2$	$\overline{22} \div 2$	$\overline{24} \div 2$
2	8	2	10	2	12

2	2	2	2	2	2
$\overline{2} \times 1$	$\overline{4} \div 2$	$\overline{6} \times 1$	$\overline{8} \div 2$	$\overline{10} \times 1$	$\overline{12} \div 2$
1	2	3	2	5	2

BALTIMORE COUNTY PUBLIC SCHOOLS
 MULTIPLICATION AND DIVISION
 TRIANGLE FLASHCARDS

$\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$	$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$
$\begin{array}{r} 3 \\ \div 3 \\ \hline 1 \end{array}$	$\begin{array}{r} 3 \\ \div 2 \\ \hline 1 \frac{1}{2} \end{array}$	$\begin{array}{r} 3 \\ \div 3 \\ \hline 1 \end{array}$	$\begin{array}{r} 3 \\ \div 4 \\ \hline 0 \frac{3}{4} \end{array}$	$\begin{array}{r} 3 \\ \div 5 \\ \hline 0 \frac{3}{5} \end{array}$	$\begin{array}{r} 3 \\ \div 6 \\ \hline 0 \frac{1}{2} \end{array}$

$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$	$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$	$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$	$\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$	$\begin{array}{r} 3 \\ \times 11 \\ \hline 33 \end{array}$	$\begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array}$
$\begin{array}{r} 3 \\ \div 3 \\ \hline 1 \end{array}$	$\begin{array}{r} 3 \\ \div 8 \\ \hline 0 \frac{3}{8} \end{array}$	$\begin{array}{r} 3 \\ \div 9 \\ \hline 0 \frac{1}{3} \end{array}$	$\begin{array}{r} 3 \\ \div 10 \\ \hline 0 \frac{3}{10} \end{array}$	$\begin{array}{r} 3 \\ \div 11 \\ \hline 0 \frac{3}{11} \end{array}$	$\begin{array}{r} 3 \\ \div 12 \\ \hline 0 \frac{1}{4} \end{array}$

BALTIMORE COUNTY PUBLIC SCHOOLS
 MULTIPLICATION AND DIVISION
 TRIANGLE FLASHCARDS

7	4	4	9	4	11	4
$\div \overline{28}$	$\times \overline{32}$	$\div \overline{36}$	$\times \overline{40}$	$\div \overline{44}$	$\times \overline{48}$	
4	8	4	10	4	12	

4	2	4	4	4	6	4
$\times \overline{4}$	$\div \overline{8}$	$\times \overline{12}$	$\div \overline{16}$	$\times \overline{20}$	$\div \overline{24}$	
1	4	3	4	5		

BALTIMORE COUNTY PUBLIC SCHOOLS
 MULTIPLICATION AND DIVISION
 TRIANGLE FLASHCARDS

5	$\overline{5} \div$	2
1	$\overline{10} \div$	5
5	$\overline{15} \div$	4
3	$\overline{20} \div$	5
5	$\overline{25} \div$	6
5	$\overline{30} \div$	5

5	$\overline{35} \div$	5
8	$\overline{40} \div$	9
5	$\overline{45} \div$	5
10	$\overline{50} \div$	11
5	$\overline{55} \div$	5
12	$\overline{60} \div$	7

BALTIMORE COUNTY PUBLIC SCHOOLS
 MULTIPLICATION AND DIVISION
 TRIANGLE FLASHCARDS

9	$\overline{9} \div \overline{X}$	2
1	$\overline{12} \div \overline{X}$	6
6	$\overline{18} \div \overline{X}$	4
3	$\overline{24} \div \overline{X}$	9
9	$\overline{30} \div \overline{X}$	6
5	$\overline{36} \div \overline{X}$	6

7	$\overline{42} \div \overline{X}$	9
6	$\overline{48} \div \overline{X}$	6
8	$\overline{54} \div \overline{X}$	9
6	$\overline{60} \div \overline{X}$	11
10	$\overline{66} \div \overline{X}$	9
6	$\overline{72} \div \overline{X}$	12

BALTIMORE COUNTY PUBLIC SCHOOLS
 MULTIPLICATION AND DIVISION
 TRIANGLE FLASHCARDS

$7 \times 7 = 49$	$2 \times 7 = 14$	$3 \times 7 = 21$	$4 \times 7 = 28$	$6 \times 7 = 42$
$7 \div 7 = 1$	$7 \div 2 = 3.5$	$7 \div 3 = 2.33$	$7 \div 4 = 1.75$	$7 \div 6 = 1.16$

$7 \times 7 = 49$	$7 \times 8 = 56$	$7 \times 9 = 63$	$7 \times 10 = 70$	$7 \times 11 = 77$	$7 \times 12 = 84$
$7 \div 7 = 1$	$56 \div 7 = 8$	$63 \div 7 = 9$	$70 \div 7 = 10$	$77 \div 7 = 11$	$84 \div 7 = 12$

BALTIMORE COUNTY PUBLIC SCHOOLS
 MULTIPLICATION AND DIVISION
 TRIANGLE FLASHCARDS

8	$\overline{8} \div \overline{X}$	2
1	$\overline{16} \div \overline{X}$	8
8	$\overline{24} \div \overline{X}$	4
3	$\overline{32} \div \overline{X}$	8
8	$\overline{40} \div \overline{X}$	9
5	$\overline{48} \div \overline{X}$	8

7	$\overline{56} \div \overline{X}$	8
8	$\overline{64} \div \overline{X}$	6
8	$\overline{72} \div \overline{X}$	8
8	$\overline{80} \div \overline{X}$	11
10	$\overline{88} \div \overline{X}$	8
8	$\overline{96} \div \overline{X}$	12

BALTIMORE COUNTY PUBLIC SCHOOLS
 MULTIPLICATION AND DIVISION
 TRIANGLE FLASHCARDS

6	$\overline{9} \times \div$	2
1	$\overline{18} \div \times$	6
3	$\overline{27} \times \div$	4
6	$\overline{36} \div \times$	9
5	$\overline{45} \times \div$	9
6	$\overline{54} \div \times$	6

7	$\overline{63} \div \times$	6
9	$\overline{72} \times \div$	6
8	$\overline{18} \div \times$	9
6	$\overline{90} \times \div$	11
10	$\overline{66} \div \times$	6
9	$\overline{66} \times \div$	12

BALTIMORE COUNTY PUBLIC SCHOOLS
 MULTIPLICATION AND DIVISION
 TRIANGLE FLASHCARDS

$\begin{array}{r} 10 \\ \times 1 \\ \hline 10 \end{array}$	$\begin{array}{r} 20 \\ \times 2 \\ \hline 40 \end{array}$	$\begin{array}{r} 30 \\ \times 3 \\ \hline 90 \end{array}$	$\begin{array}{r} 40 \\ \times 4 \\ \hline 160 \end{array}$	$\begin{array}{r} 50 \\ \times 5 \\ \hline 250 \end{array}$	$\begin{array}{r} 60 \\ \times 6 \\ \hline 360 \end{array}$
$\begin{array}{r} 10 \\ \div 1 \\ \hline 10 \end{array}$	$\begin{array}{r} 20 \\ \div 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 30 \\ \div 3 \\ \hline 10 \end{array}$	$\begin{array}{r} 40 \\ \div 4 \\ \hline 10 \end{array}$	$\begin{array}{r} 50 \\ \div 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 60 \\ \div 6 \\ \hline 10 \end{array}$

$\begin{array}{r} 70 \\ \times 7 \\ \hline 490 \end{array}$	$\begin{array}{r} 80 \\ \times 8 \\ \hline 640 \end{array}$	$\begin{array}{r} 90 \\ \times 9 \\ \hline 810 \end{array}$	$\begin{array}{r} 100 \\ \times 10 \\ \hline 1000 \end{array}$	$\begin{array}{r} 110 \\ \times 11 \\ \hline 1210 \end{array}$	$\begin{array}{r} 120 \\ \times 12 \\ \hline 1440 \end{array}$
$\begin{array}{r} 70 \\ \div 7 \\ \hline 10 \end{array}$	$\begin{array}{r} 80 \\ \div 8 \\ \hline 10 \end{array}$	$\begin{array}{r} 90 \\ \div 9 \\ \hline 10 \end{array}$	$\begin{array}{r} 100 \\ \div 10 \\ \hline 10 \end{array}$	$\begin{array}{r} 110 \\ \div 11 \\ \hline 10 \end{array}$	$\begin{array}{r} 120 \\ \div 12 \\ \hline 10 \end{array}$

BALTIMORE COUNTY PUBLIC SCHOOLS
 MULTIPLICATION AND DIVISION
 TRIANGLE FLASHCARDS

$\begin{array}{r} 11 \\ \times 1 \\ \hline 11 \end{array}$	$\begin{array}{r} 22 \\ \times 2 \\ \hline 44 \end{array}$	$\begin{array}{r} 33 \\ \times 3 \\ \hline 99 \end{array}$	$\begin{array}{r} 44 \\ \times 4 \\ \hline 176 \end{array}$	$\begin{array}{r} 55 \\ \times 5 \\ \hline 275 \end{array}$	$\begin{array}{r} 66 \\ \times 6 \\ \hline 396 \end{array}$
$\begin{array}{r} 11 \\ \div 1 \\ \hline 11 \end{array}$	$\begin{array}{r} 22 \\ \div 2 \\ \hline 11 \end{array}$	$\begin{array}{r} 33 \\ \div 3 \\ \hline 11 \end{array}$	$\begin{array}{r} 44 \\ \div 4 \\ \hline 11 \end{array}$	$\begin{array}{r} 55 \\ \div 5 \\ \hline 11 \end{array}$	$\begin{array}{r} 66 \\ \div 6 \\ \hline 11 \end{array}$

$\begin{array}{r} 77 \\ \times 7 \\ \hline 539 \end{array}$	$\begin{array}{r} 88 \\ \times 8 \\ \hline 704 \end{array}$	$\begin{array}{r} 99 \\ \times 9 \\ \hline 891 \end{array}$	$\begin{array}{r} 110 \\ \times 10 \\ \hline 1100 \end{array}$	$\begin{array}{r} 121 \\ \times 11 \\ \hline 1331 \end{array}$
$\begin{array}{r} 77 \\ \div 7 \\ \hline 11 \end{array}$	$\begin{array}{r} 88 \\ \div 8 \\ \hline 11 \end{array}$	$\begin{array}{r} 99 \\ \div 9 \\ \hline 11 \end{array}$	$\begin{array}{r} 110 \\ \div 10 \\ \hline 11 \end{array}$	$\begin{array}{r} 132 \\ \div 11 \\ \hline 12 \end{array}$

BALTIMORE COUNTY PUBLIC SCHOOLS
 MULTIPLICATION AND DIVISION
 TRIANGLE FLASHCARDS

$\overline{12}$	$\overline{24}$	$\overline{36}$	$\overline{48}$	$\overline{60}$	$\overline{72}$
\times	\div	\times	\div	\times	\div
12	12	12	12	12	12
2	12	4	12	6	12
1	3	3	5	5	

$\overline{84}$	$\overline{96}$	$\overline{108}$	$\overline{120}$	$\overline{132}$	$\overline{144}$
\div	\times	\div	\times	\div	\times
12	12	8	12	10	12
7	12	9	12	11	12
12	8	12	10	12	12

BALTIMORE COUNTY PUBLIC SCHOOLS
KNOWLEDGE OF NUMBER RELATIONSHIPS AND COMPUTATION/ARITHMETIC
HUNDRED CHART ACTIVITIES

A hundred chart can be used with the following activities:

1. Count and touch each number as it is said.
2. Identify a given number.
3. Cover some numbers using pennies or pieces of paper. Name the numbers that are hidden.
4. Pick and name a number. Name the number that comes just before and just after the number.
5. Mark two numbers. Identify which one is greater.
6. Identify the number that is 1 more than, 1 less than, 10 more than, and 10 less than a given number.
7. Count objects that have been grouped into tens and ones. Then find that number on the chart.
8. Practice skip counting by 2s, 5s, or 10s. Color in the numbers that make up the skip counting pattern.
9. Start on any number and continue to add 10. Talk about the pattern.
10. Start on any number and add 12. Look for patterns.
11. Distinguish between odd and even numbers.
12. Identify multiples of a number.
13. Give your child a blank hundred chart. Each day ask your child to add a number to the chart.
14. This activity uses a "mystery bag." Begin by placing numbers up to 15 on the blank chart. Place other numbers in a paper bag. Have your child pull a number from the bag and place it on the chart. Ask, "Why did you place the number in that block?"
15. Play BINGO using the hundred chart. Numbers can be called with the number name or the column and row.
16. Mark a number on the chart. Then ask your child to move a marker on the chart. For example, ask your child to "move left three spaces." You might also ask your child to move other directions, including right, up, down, diagonal up right, etc.
17. This activity is called "mystery number of the day." Give your child clues to help identify a certain number. For example, "The number is even," "The number is greater than 25," "The number is ...". Your child may change his or her solution after each clue is given or wait until all the clues have been given to find the solution.
18. This activity is called "secret switch." Have your child close his or her eyes. Switch two numbers on the chart. Ask your child to discover the two numbers which have been switched.
19. Use a spinner to determine a number. Then ask your child to move a chip on the chart, counting up and back.

BALTIMORE COUNTY PUBLIC SCHOOLS
KNOWLEDGE OF NUMBER RELATIONSHIPS AND COMPUTATION/ARITHMETIC
HUNDRED CHART

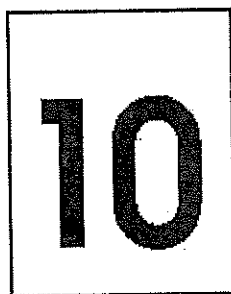
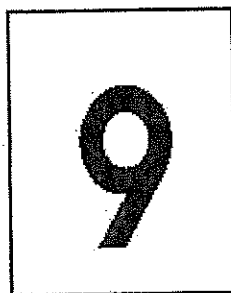
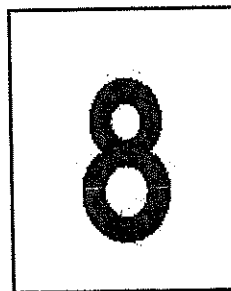
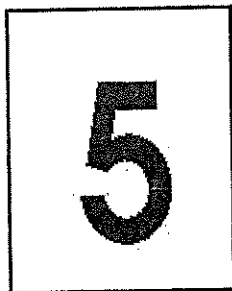
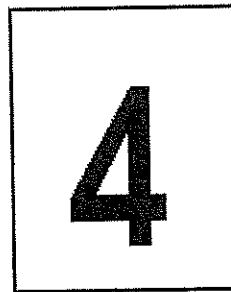
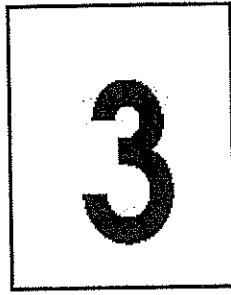
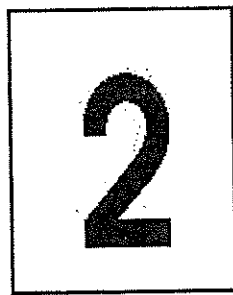
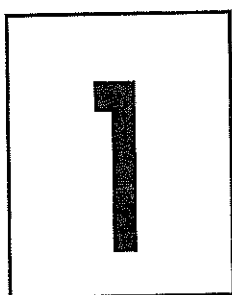
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

A COUNTING GAME

Use the number cards below to help your child count sets.

1. Show a number card and have your child count that many small objects. You can use items such as cereal, pasta, buttons, or game pieces.
2. Place number cards inside the cups of a muffin pan. Have your child count and place the correct number of small items into each cup.

Number Cards



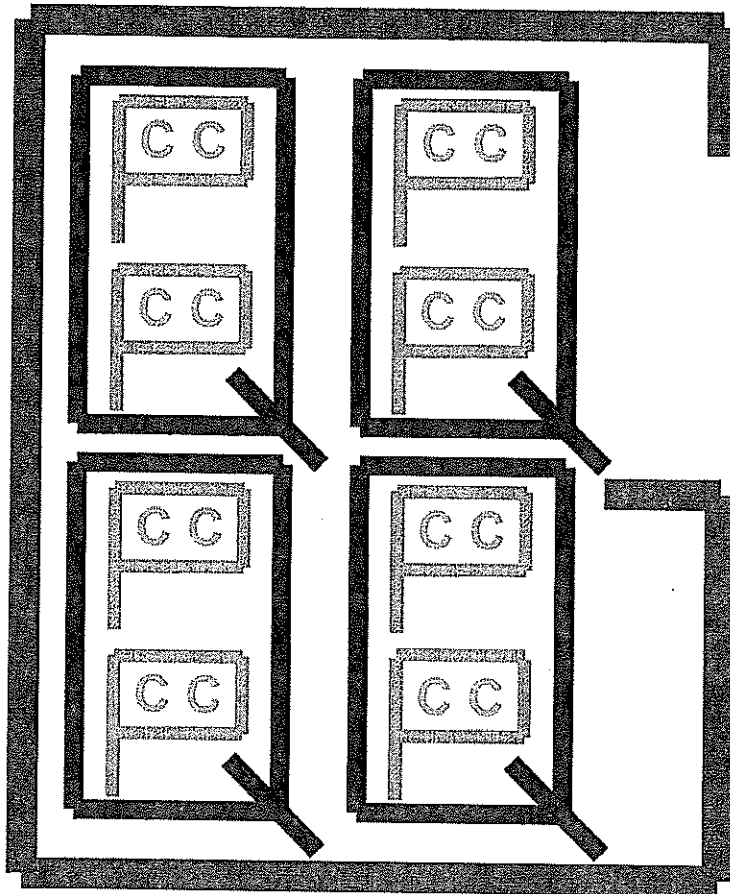


BALTIMORE COUNTY PUBLIC SCHOOLS

WHAT'S IN A GALLON?

USE THIS CHART TO HELP YOU FIGURE OUT THE RELATIONSHIPS IN LIQUID MEASUREMENT

HINT: Look for a G, Qs, Ps and Cs



NOTE: Find 2 Cups in a Pint. Find 2 Pints in a Quart. Find 4 Quarts in 1 Gallon

- G** = **Gallon**. There are 128 ounces in a gallon.
- Q** = **Quart**. There are 32 ounces in a quart and 4 quarts in a gallon.
- P** = **Pint**. There are 16 ounces in a pint, 2 pints in a quart, and 8 pints in a gallon.
- C** = **Cup**. There are 8 ounces in a cup, 2 cups in a pint, 4 cups in a quart, and 16 cups in a gallon.

Division Activities

Popcorn Division

You will need:

- Popped popcorn
- 4 or more cups or other containers

How to Play:

- Count out 12 pieces of popcorn.
- Place three cups or other containers on the table.
- Put one piece of popcorn in the first cup, one in the second cup, and one in the third cup.
- Keep adding popcorn to each cup, one piece at a time, until all of the pieces are in the cups.

12 pieces of popcorn ÷ into 3 equal groups = 4 pieces of popcorn in each group.

- Write a division sentence to show how many pieces of popcorn are in each cup.

$$12 \div 3 = 4$$

- Empty all of the cups onto the table.
- Take away one of the cups so that only two cups are left.
- Put popcorn into each cup, one piece at a time, as you did the first time.
- Write a division sentence to show how many pieces are in each cup.
- Repeat the activity, using more cups or more pieces of popcorn.
- Write division sentences to show how much popcorn is in each cup.

Division Activities

Stringy Division

You will need:

- Meter stick
- String
- Scissors
- Paper
- Pencil

How to Play:

Problem: You have a piece of string that measures 110 cm in length. You want to give one piece of the string to each of your friends. If you cut pieces that are each 8 cm long, how many of your friends will each get one 8 cm piece of string? To find the answer, follow the steps below.

- Measure and cut a piece of string that is 110 cm in length.
- Start at one end of the string and cut pieces that are 8 cm in length. Cut as many pieces as possible. Measure carefully.
- Count the number of 8 cm pieces that you have cut.
- Measure the piece that is left over. It should measure 6 cm.
- This is an example of using repeated subtraction to divide. Subtract 8 cm thirteen times. There are thirteen 8-cm pieces and 6 cm left over (remainder). The answer to your problem is 13 friends will each get a piece of string 8 cm in length and you will have 6 cm left over.

$$110 - 8 = 102$$

$$102 - 8 = 94$$

$$94 - 8 = 86$$

$$86 - 8 = 78$$

$$78 - 8 = 70$$

$$70 - 8 = 62$$

$$62 - 8 = 54$$

$$54 - 8 = 46$$

$$46 - 8 = 38$$

$$38 - 8 = 30$$

$$30 - 8 = 22$$

$$22 - 8 = 14$$

$$14 - 8 = 6$$

- Write the division sentence that this problem represents.
- *Example:* $110 \div 8 = 13 R 6$
- Repeat with other lengths of string.

Division Activities

The Cookie Caper

You will need:

- 30 counters to represent cookies
(or real cookies)
- Paper
- Pencil

How to Play:

- Players follow along with the story (*printed on next page*) and divide up the counters as the story progresses.

Chelsea the Chipmunk was hungry for chocolate chip cookies. She mixed and measured and baked up a delicious batch of cookies. When they were ready, she had 30 of the most delicious cookies she had ever baked. She decided to eat them all herself.

Before she could eat them, there was a knock on the door. It was her friend, Sonia Squirrel, who had smelled the cookies and wanted to share them.

Sonia and Chelsea divided up the cookies. (*Players divide the counters into two groups and write the matching division sentence: $30 \div 2 = 15$.*)

Before they could eat their cookies, there was another knock on the door. It was their friend, Randy Raccoon. Of course, they decided to share the cookies with Randy! (*Players divide the 30 cookies into 3 groups and write the corresponding division sentence: $30 \div 3 = 10$.*)

It wasn't long before there were more and more knocks on the door. Each time a new friend came along, the cookies were divided into new groups to share. Finally there were 10 friends in all! (*Players continue dividing the 30 cookies into groups of 4, 5, 6, etc., until there are 10 groups. Players write the division sentences each time. Some problems will have remainders.*)

Division Activities

Number of Friends	Number of Groups	Number of Cookies for Each Friend	Division Sentence
1	1	30	$30 \div 1 = 30$
2	2	15	$30 \div 2 = 15$

Division Activities

Circle Division

You will need:

- Pencil
- Paper (or “Division by Threes” work mat at back of this packet)
- Jar of 30 pennies

Preparation:

- If you are making your own work mat, draw three large circles on paper, and label it “Division Mat or Dividing by Three.” Number the circles 1, 2, and 3.

How to Play:

- Take three pennies from the jar. Put one penny in each circle. *How many pennies are in each circle? You have shown the division fact $3 \div 3 = 1$.*
3 pennies \div into 3 equal groups = 1 penny in each group.
- Put a second penny in each of the three circles. *How many pennies did you use? You have shown the division fact $6 \div 3 = 2$.*
6 pennies \div into 3 equal groups = 2 pennies in each group.
- Continue to use the rest of the pennies in this way to show the remaining division facts for 3.

Division Activities

Egg Carton Division

You will need:

- 5 empty egg cartons
- 60 marbles

Preparation:

- Break the egg cartons in half so that each carton has 6 compartments.

How to Play:

- Count out 6 marbles, and put one in each section of a half-carton. *You have shown the division fact $6 \div 6 = 1$.*

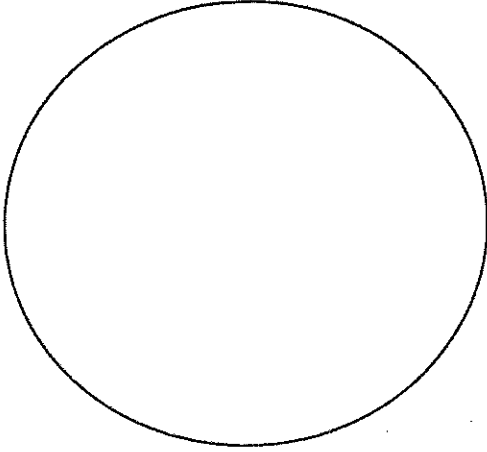
6 marbles \div into 6 equal groups = 1 marble in each group.

- Now count out 12 marbles, and put two in each section of a half-carton. *You have shown the division fact $12 \div 6 = 2$.*

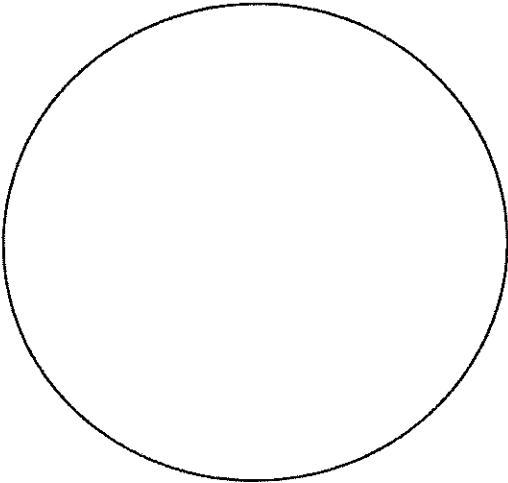
12 marbles \div into 6 equal groups = 2 marbles in each group.

- Continue to use the half-carton and marbles to show the rest of the division facts for 6.

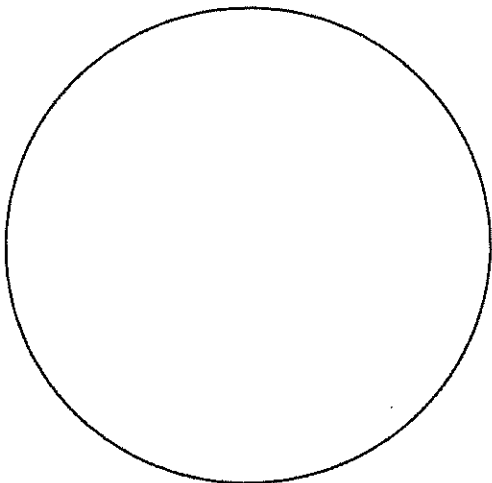
Division Activities



1



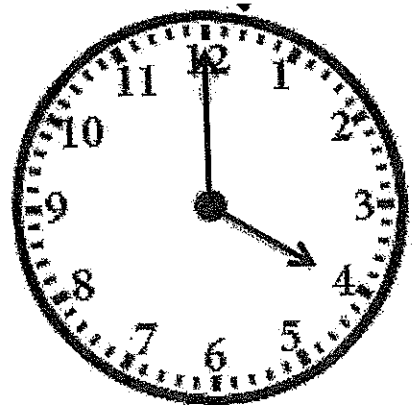
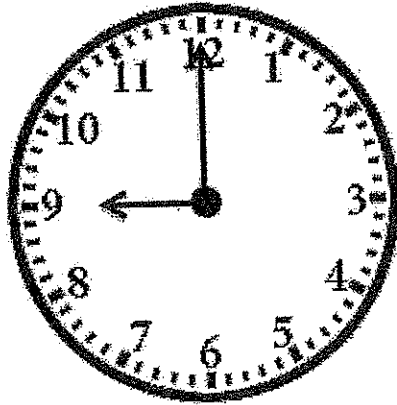
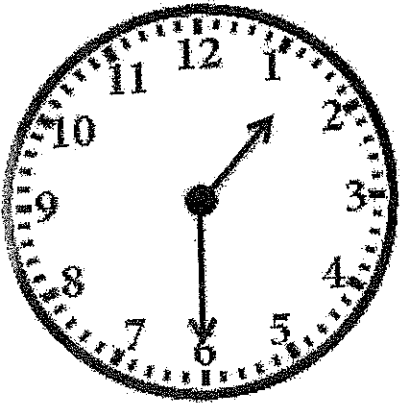
2



3

Math

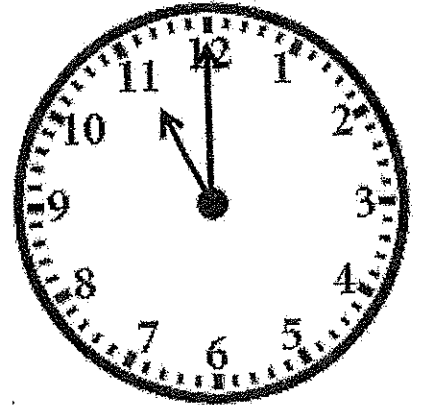
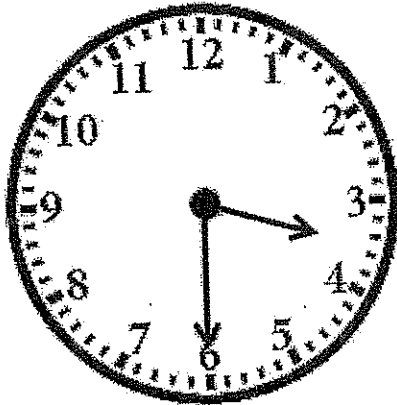
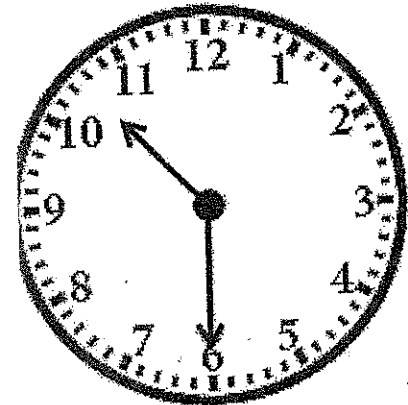
Read the clock. Write
the time.



_____ : _____

_____ : _____

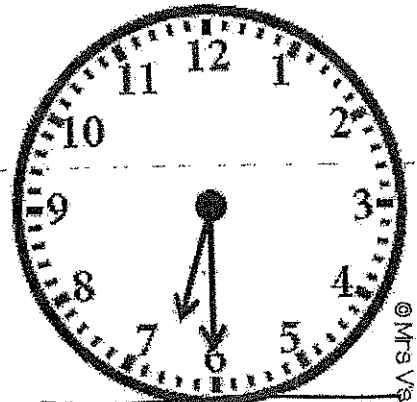
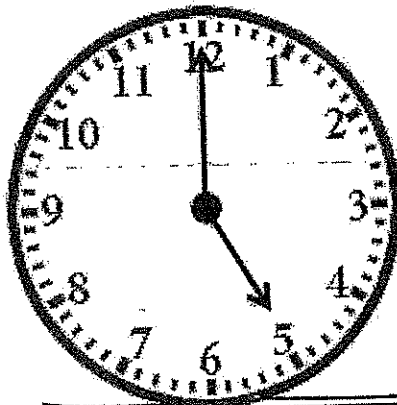
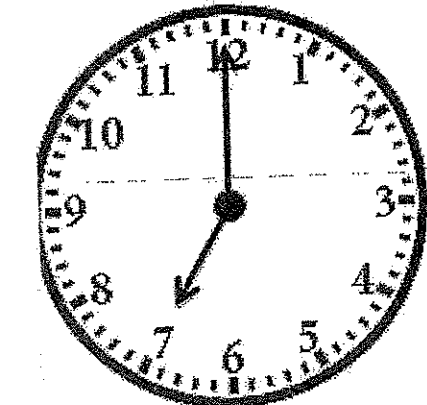
_____ : _____



_____ : _____

_____ : _____

_____ : _____



_____ : _____

_____ : _____

_____ : _____

Math

Find the missing number to make the equation true



$6 - \underline{\quad} = 6$

$3 - \underline{\quad} = 2$

$9 - \underline{\quad} = 6$

$10 - \underline{\quad} = 9$

$9 - \underline{\quad} = 4$

$1 - \underline{\quad} = 0$

$8 - \underline{\quad} = 6$

$6 - \underline{\quad} = 2$

$5 - \underline{\quad} = 0$

$7 - \underline{\quad} = 5$

$5 - \underline{\quad} = 3$

$6 - \underline{\quad} = 3$

$5 - \underline{\quad} = 2$

$3 - \underline{\quad} = 2$

$3 - \underline{\quad} = 1$

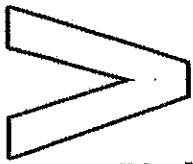
$2 - \underline{\quad} = 1$

$8 - \underline{\quad} = 3$

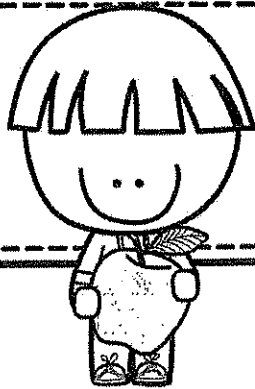
$10 - \underline{\quad} = 7$

Math

Write the correct symbol
in each circle



Greater Than



Less Than

$47 \bigcirc 68$

$31 \bigcirc 29$

$13 \bigcirc 81$

$55 \bigcirc 44$

$71 \bigcirc 92$

$17 \bigcirc 21$

$68 \bigcirc 40$

$33 \bigcirc 31$

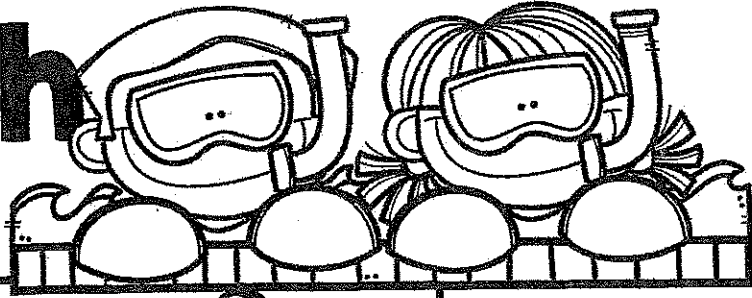
$73 \bigcirc 94$

$36 \bigcirc 61$

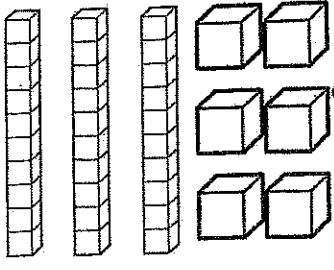
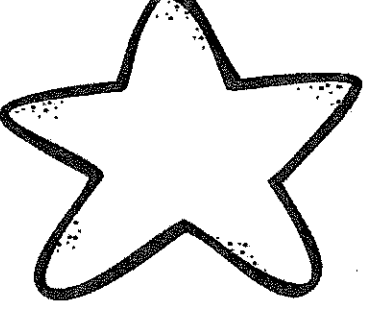
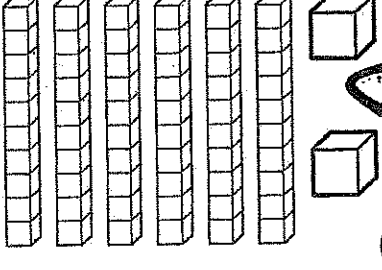

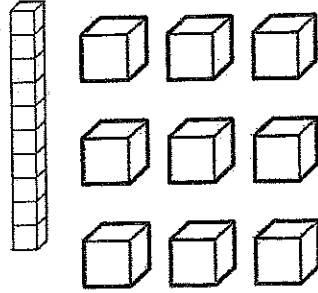
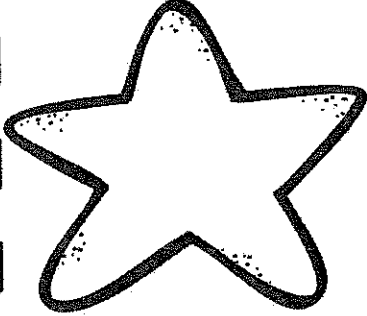
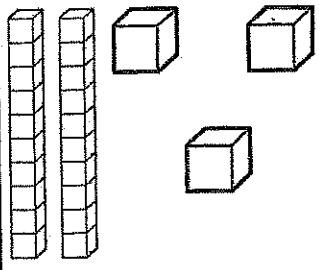
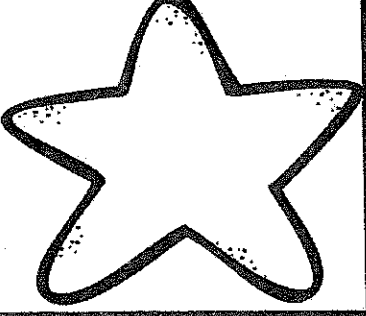
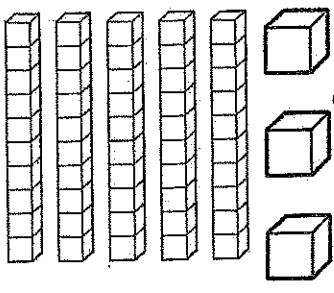
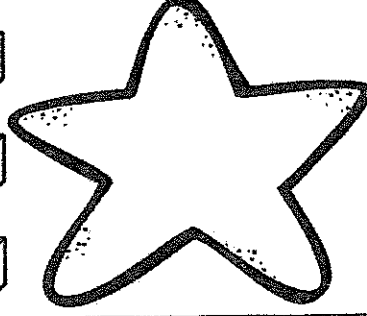
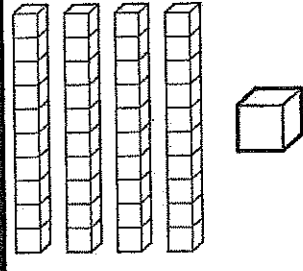
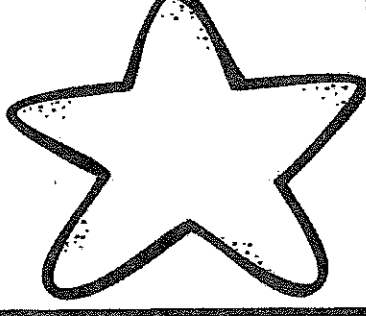
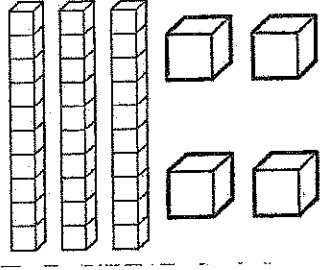
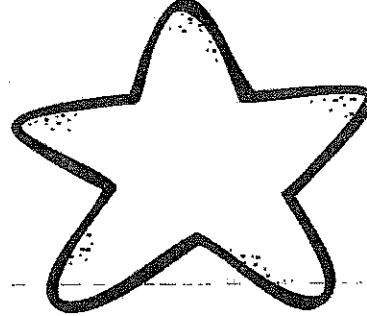
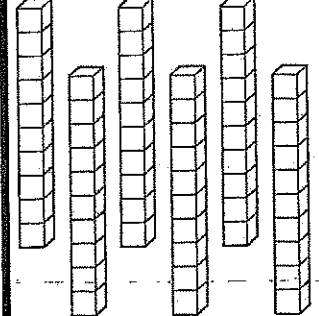
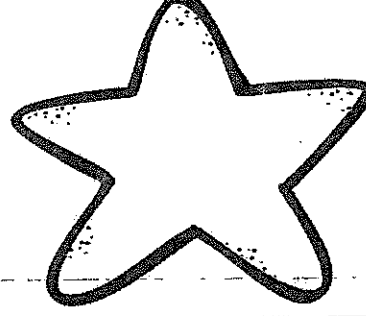
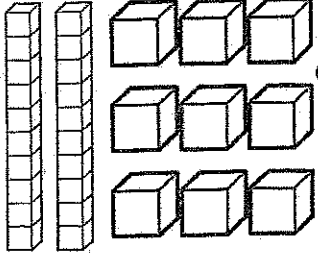
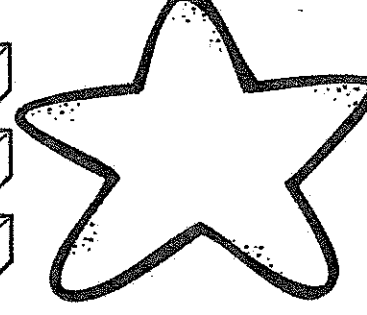
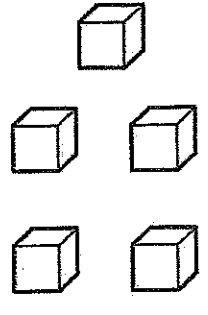
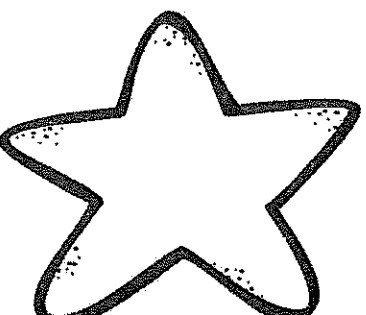
$89 \bigcirc 79$

$98 \bigcirc 99$

Math



Count and Write

BALTIMORE COUNTY PUBLIC SCHOOLS

KNOWLEDGE OF ALGEBRA, PATTERNS, AND FUNCTIONS



SHAKE THEM UP!

EGG CARTON GAME FOR MATH

This game is inexpensive and easy to make, and it creates a fun way to learn! It is great to play while riding in the car or waiting at the doctor's office or just about anytime.

Materials Needed:

- 1 egg carton
- * 2 buttons, coins, or cereal or candy pieces
- A marker
- Tape

Number of Players: Can be played alone or with others

Preparation:

1. Tape up any holes on the egg carton.
2. Write numbers in the bottom of each section in the carton.

How to Play:

1. Place two of the buttons, coins, or cereal or candy pieces in the egg carton.
2. Shake it up.
3. Match the activity to the skill your child needs to master. For example, use the numbers that the buttons land on to have your child:
 - Identify the numbers by naming them.
 - Add two numbers and identify the sum.
 - Subtract one number from the other and identify the difference.
 - Multiply the two numbers and identify the product.

* *Young children should be supervised when using small items such as buttons or coins.*

BALTIMORE COUNTY PUBLIC SCHOOLS



PICK A PATTERN

When something happens over and over, we say there is a **pattern**. **Patterns** are all around us – in music, art, science, math, and everyday living. Young children begin to identify patterns in the world around them. They begin hearing patterns in language and music and make patterns with their bodies by playing such games as Simon Says. After many experiences, young children will see that patterns are predictable and can go on forever.

Patterns can be both numeric (using numbers) and non-numeric. The **core** of the pattern is what is repeated, and the **element** is each part of the pattern. In the following pattern - \underline{D} , \star , \star , \star ; \underline{D} , \star , \star , \star , etc. - the **core** is \underline{D} , \star , \star , \star ; and there are three different **elements**: \underline{D} , \star , and \star .

To help your child understand **patterns**, consider the following:

- When taking a walk around the block, discuss with your child interesting arrangements of objects or patterns that appear in the environment (such as brick sidewalks, window and door placement in buildings, landscaping). Encourage your child to point out what he or she is noticing.
- On your walk, help your child make a pattern – walk, walk, hop, clap; walk, walk, hop, clap, etc.
- When your child is eating cereal that has different colors or shapes, help your child create a **pattern** – 2 green, 4 red, 2 green, 4 red, etc. The **core** is 2 green, 4 red; and the different **elements** are the red and green cereal. You might also use the following elements – star, moon, clover – to make the core of 1 star, 2 moons, 4 clovers.
- Have your child rename the same pattern using letters (1 knife, 2 forks, 4 spoons; 1 knife, 2 forks, 4 spoons ...or A, B B, C C C C; A, B B, C C C C...)
- Help your child find patterns around the house – in wallpaper or in the fabric of clothes or furniture.

BALTIMORE COUNTY PUBLIC SCHOOLS



Football Math Game

This game creates a fun way to help reinforce addition and/or multiplication skills.

Materials Needed

Game board
Paper football
Paper helmet
One die or spinner

How to Play

1. Cut out the footballs and helmets.
2. Determine which math operation you want to practice (addition or multiplication).
3. To **“kick off,”** the first player draws a football from the bag, rolls a die or pair of dice, or spins a spinner to determine the **“value of the football.”**
4. The first person on the team **“carries the ball,”** by correctly adding or multiplying the value of the football by the number on the field. If the football is carried into the opponent’s end zone, a **“touchdown”** is scored. The student receives a helmet. The helmet is worth 7 points.
5. A mistake is considered a **“fumble.”** The player from the opposing team starts at the point of the fumble and follows the same procedures, but this player proceeds in the **opposite direction.**
6. After a **“touchdown”** is scored the next player on the team **“kicks off”** by drawing a different football, rolling a die or pair of dice, or spinning a spinner.

The team with the most points at the end of the game is the winner.

To have your game laminated or enlarged, visit your area BCPS’ Resource Center for Family and Schools by [clicking this link to our website.](#)



KNOWLEDGE OF ALGEBRA, PATTERNS, AND FUNCTIONS

FISHING TO LEARN GAME - MATH

This game creates a fun way to learn, and it is inexpensive and easy to make. It is great to play at home with your child while helping to reinforce number and shape recognition.

Materials Needed:

- 1 basket or bowl
- 1 small stick or pole
- 1 magnetic clip (can be purchased at a dollar store)
- 1 package of magnetic shapes or numbers

Number of Players: Can be played alone or with others.

Preparation:

1. Fill bowl or basket with magnetic shapes and numbers.
2. Place the magnet side up.
3. Tie a string to the stick or small pole.
4. Attach the magnetic clip to the other end of the string.

How to Play:

1. Have your child hold the fishing pole over the bowl or basket, placing the magnetic clip on the shapes or numbers.
2. Have your child identify the object he or she has fished out of the bowl.

Name: _____

Date: _____

Summer Math Packet for Students Entering 2nd Grade

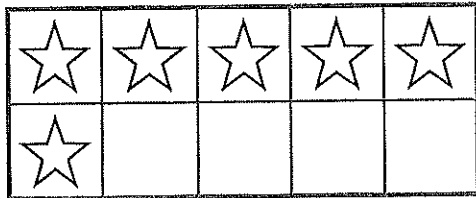
Mid-Year Review

Test Prep

Multiple Choice

Fill in the circle next to the correct answer.

1. How many stars are there?

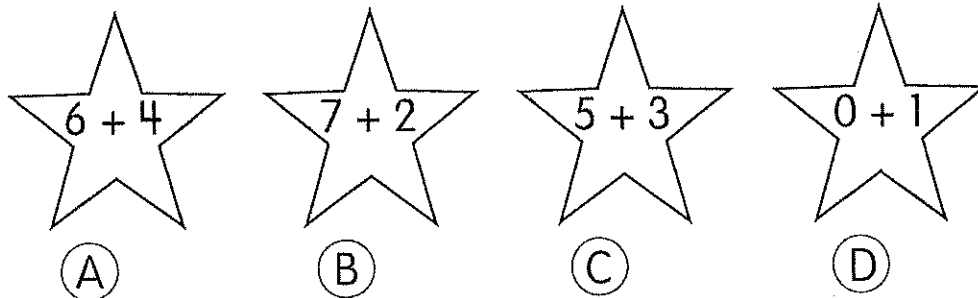


- (A) 10 (B) 8 (C) 7 (D) 6

2. Which number is greater than 8?

- (A) 8 (B) 10 (C) 7 (D) 0

3. Which star makes 10?



4. Which star makes 1 less than 7?



(A)



(B)



(C)



(D)

5. Find the missing number.

$$\square + 9 = 10$$

(A) 11

(B) 8

(C) 1

(D) 0

6. Find the missing number.

$$8 - \square = 4$$

(A) 8

(B) 5

(C) 4

(D) 2

7. How many sides does a  have?

(A) 4

(B) 3

(C) 2

(D) 0

8. How many corners does a  have?

(A) 0

(B) 1

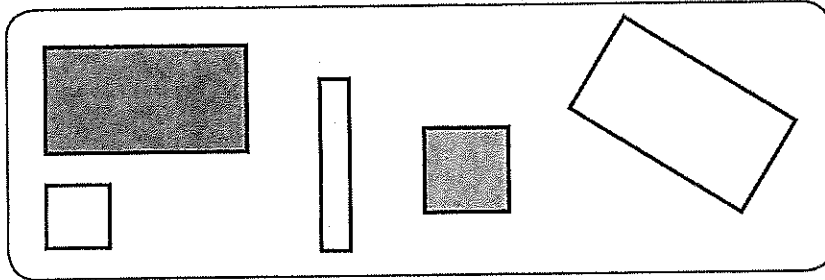
(C) 2

(D) 5

Name: _____

Date: _____

9. How are these shapes sorted?

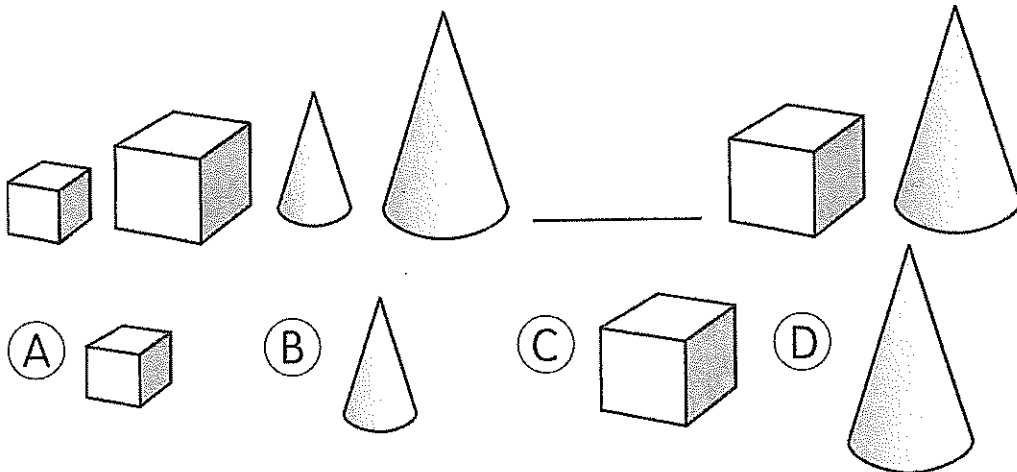


- (A) shape
- (B) color
- (C) size
- (D) number of sides

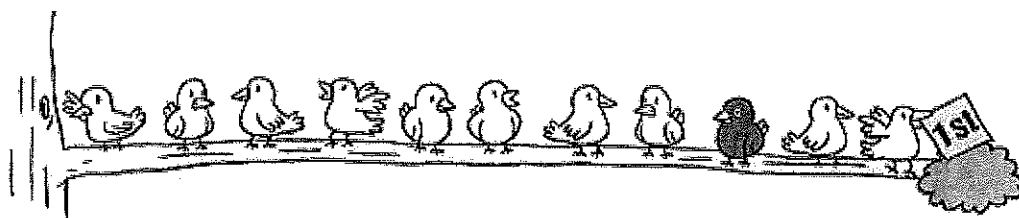
10. Which solid shape can you roll and slide?

- (A) sphere
- (B) cone
- (C) cube
- (D) pyramid

11. Complete the pattern.



12. In which position is the black bird?



- (A) 3rd (B) 5th (C) 9th (D) 10th

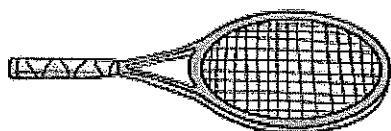
13. What do ten and nine make?

- (A) 1 (B) 9 (C) 19 (D) 20

14. $16 - 8 = ?$

- (A) 8 (B) 9 (C) 16 (D) 18

15. The tennis racket is about _____ shoes long.



- (A) 5 (B) 4 (C) 3 (D) 1

Name: _____

Date: _____

Short Answer

Read the questions carefully.

Write your answers in the space given.

Write the numbers in words.

16. 8 _____

17. 19 _____

18. 12 _____

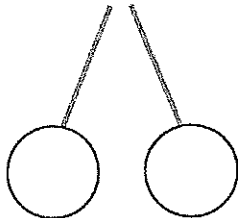
Complete the number patterns.

19. _____, 1, 2, 3, _____, 5

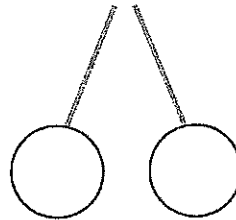
20. _____, 16, 14, _____, 10, 8 _____

Add.

21. $7 + 8 =$ _____



22. $20 - 7 =$ _____



Order the numbers from greatest to least.

23.

19

9

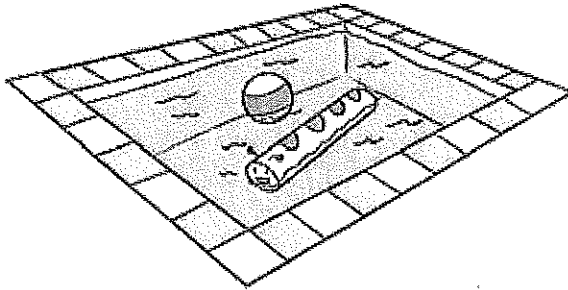
20

10

Look at the picture.

Circle the words for the shapes you see.

24.



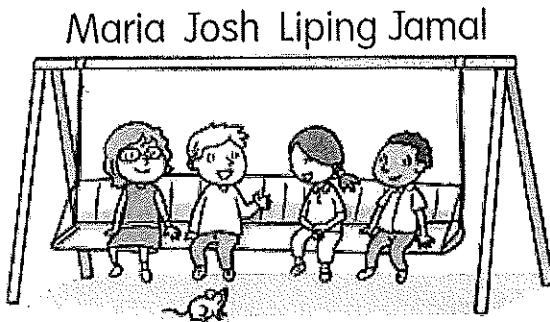
circle rectangle square triangle

sphere pyramid cylinder cone cube

Name: _____

Date: _____

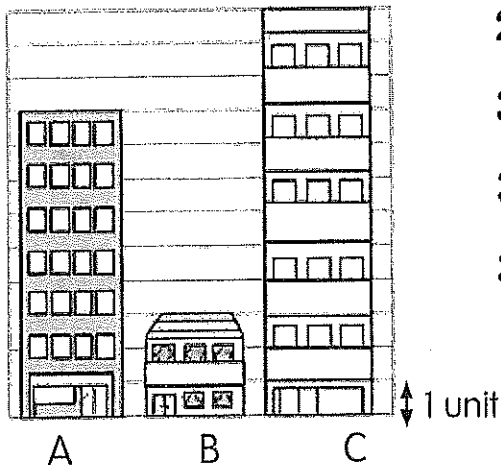
Look at the picture.
Then fill in the blanks.
Use the words in the box.



left	right
between	above
below	next to
first	second
third	second

- 25. Maria is last from the _____.
- 26. Jamal is _____ on the right.
- 27. Liping is _____ Josh and Jamal.
- 28. The mouse is _____ Josh.

Look at the picture.
Then fill in the blanks.

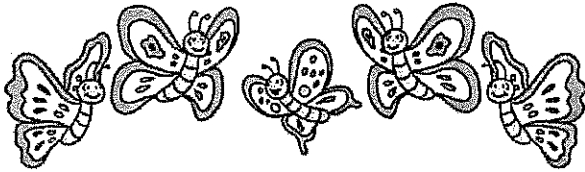


- 29. Building A is _____ units tall.
- 30. Building B is _____ units tall.
- 31. Building C is _____ units tall.
- 32. Building _____ is the tallest.

Extended Response

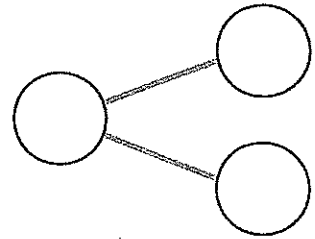
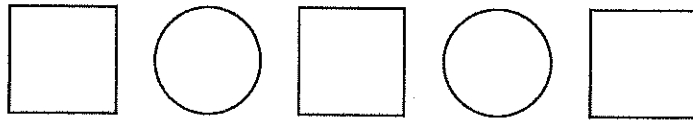
Solve.

33.



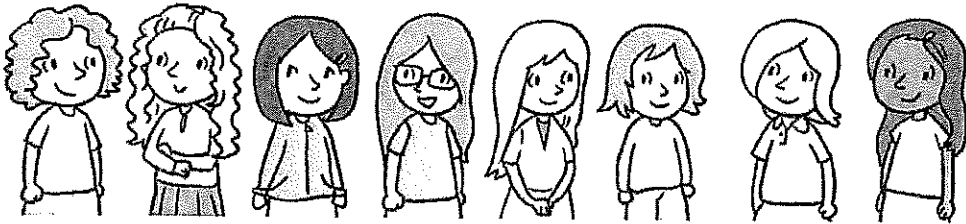
There are _____ butterflies.

There are _____ spiders.



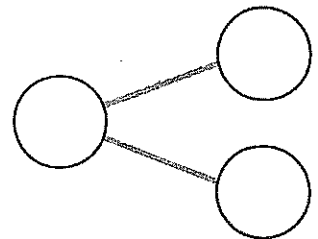
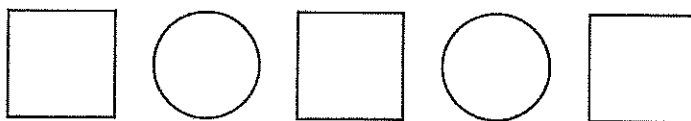
There are _____ butterflies and spiders in all.

34.



There are 8 girls.

2 girls have curly hair.



_____ girls have straight hair.

Name: _____

Date: _____

Show the number.

Draw for tens and for ones.

Then fill in the blanks.

35.

	Tens	Ones
17		

	Tens	Ones
11		

_____ is the greater number.

It is greater by _____.

Fill in the blanks.

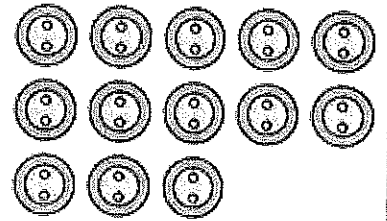
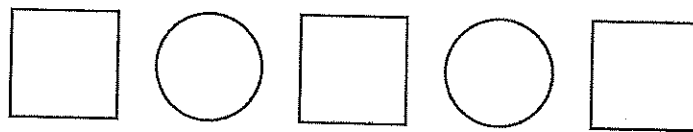
36. $7 + 8 = ?$ $7 + 8$ is double _____ plus _____.

$7 + 8 = 7 +$ _____ plus _____

$=$ _____ + 1

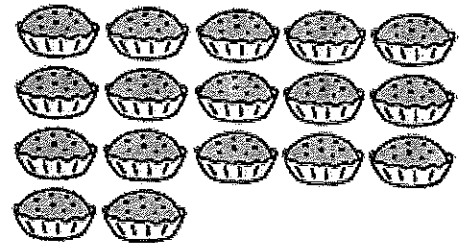
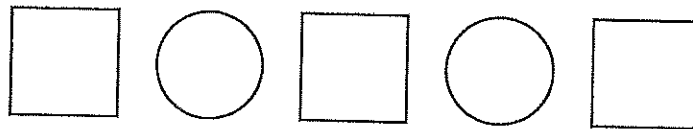
$=$ _____

- 37.** Mom has 13 buttons.
She uses some to sew a dress.
7 buttons are left.
How many buttons does Mom use?



Mom uses _____ buttons.

- 38.** Andrew gives away 9 muffins.
He has 8 muffins left.
How many muffins did he
have at first?



Andrew had _____ muffins at first.

Name: _____

Date: _____

39. Follow the directions:

First, draw a start line.

Next, draw a shorter arrow.

Then, draw an arrow that is longer than the other arrows.

Last, circle the shortest arrow.





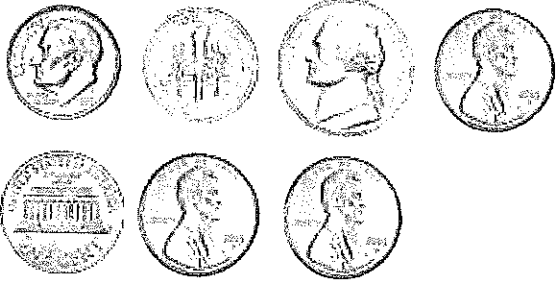


End-of-Year Review

Test Prep

Multiple Choice

Fill in the circle next to the correct answer.

- Which month has less than 31 days?
 (A) January (B) March (C) April (D) October
- Nina works from Wednesday to the following Monday. How many days does she work?
 (A) 5 (B) 6 (C) 7 (D) 8
- _____ is the season that comes after Spring.
 (A) Summer (B) Hot (C) Winter (D) Fall
- The _____ has a value of 5¢.
 (A)  penny (B)  dime (C)  quarter (D)  nickel
- What is the value of the coins?

 (A) 7¢ (B) 19¢ (C) 29¢ (D) 34¢

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6. This is the money Shari has.

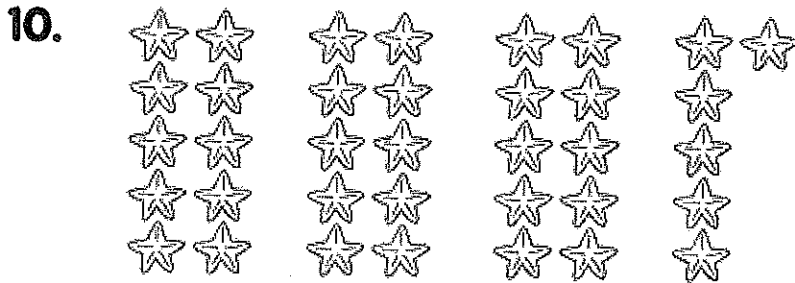


She buys a red ribbon for 15¢.
How much money does she have left?

- (A) 43¢ (B) 53¢ (C) 50¢ (D) 87¢
7. $55¢ + 12¢ = ?$
- (A) 35¢ (B) 53¢ (C) 67¢ (D) 75¢
8. The third Friday in July is July 17.
What will the fourth Friday be?
- (A) July 24 (B) July 22 (C) July 15 (D) August 1
9. 65 comes just before _____.
- (A) 55 (B) 64 (C) 66 (D) 75

Name: _____

Date: _____



3 tens and 6 ones is the same as _____.

- (A) 8 (B) 11 (C) 36 (D) 83

11. Look at the number pattern.

Which number comes next?

28, 31, 34, 37, 40 _____

- (A) 31 (B) 41 (C) 43 (D) 50

12. 10 more than 65 is _____.

- (A) 55 (B) 56 (C) 85 (D) 75

13. Add 16 to 57.

- (A) 13 (B) 63 (C) 73 (D) 83

14. Find the missing number.

_____ 15, 25, 35, 45

- (A) 0 (B) 5 (C) 10 (D) 55

15. Subtract.

$$\begin{array}{r} 45 \\ -36 \\ \hline \end{array}$$

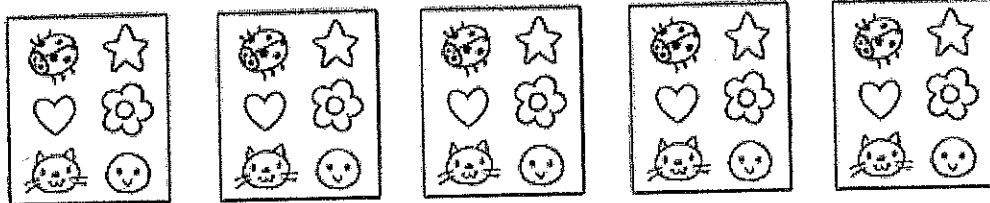
- (A) 9 (B) 11 (C) 19 (D) 81

16. Add mentally.

$$15 + 24 = \underline{\hspace{2cm}}$$

- (A) 7 (B) 13 (C) 39 (D) 35

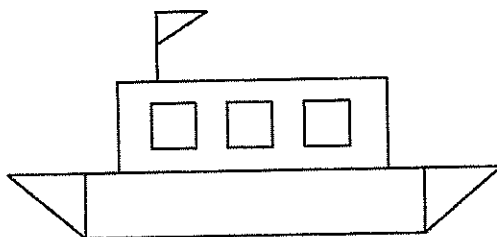
17.



There are _____ stickers in all.

- (A) 6 (B) 12 (C) 24 (D) 30

18. There are _____ squares in the figure.



- (A) 3 (B) 4 (C) 5 (D) 6

Name: _____

Date: _____



The pencil is about _____  long.

(A) 8

(B) 2

(C) 6

(D) 4

Short Answer

Read the questions carefully.

Write your answers in the space given.

Write the number in words.

20. 11 _____

21. 87 _____

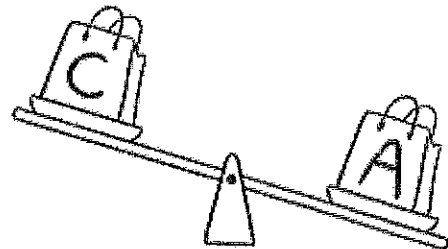
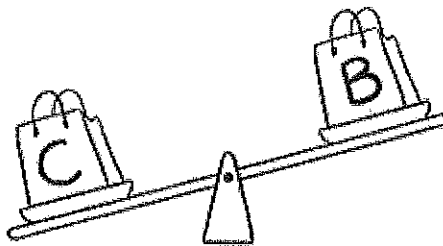
Write the number.

22. fifty-four _____

23. twenty-six _____

Look at the pictures.

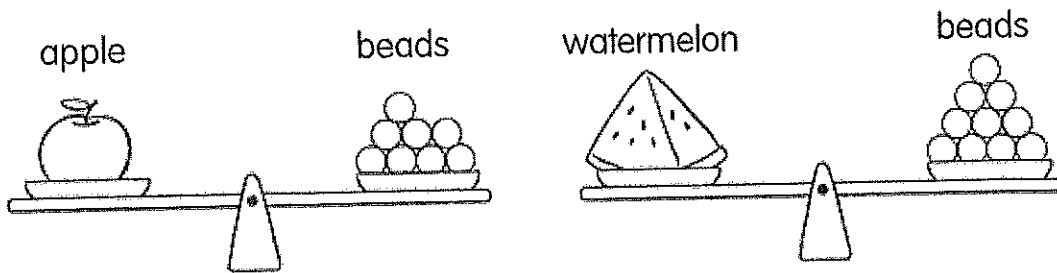
Then fill in the blanks.



24. Order the bags from lightest to heaviest.

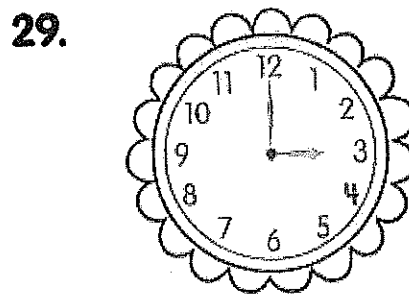
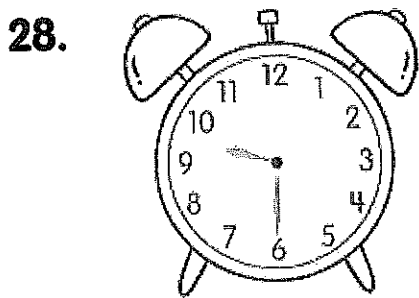
_____ lightest _____

Look at the picture.
Then fill in the blanks.
Use ○ as 1 unit.



25. The weight of the apple is about _____ units.
26. The weight of the watermelon is about _____ units.
27. The _____ is heavier than the _____.

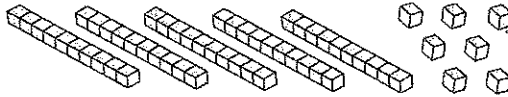
Look at each picture.
Then write the time.



Name: _____

Date: _____

- 30.** Look at the picture.
Then write the number in words.



- 31.** Order the numbers from greatest to least.

75	41	18	29
----	----	----	----

_____ , _____ , _____ , _____
greatest

Circle the two numbers that add up to 4 tens and 4 ones.

- 32.** 24 27 51 30 17

Add the 2nd and 5th numbers.

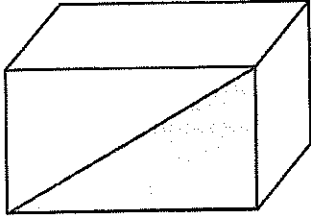
33.

37	20	19	62	45	83	51
1st						

- 34.** Subtract 6 tens 4 ones from 8 tens 2 ones.
- _____

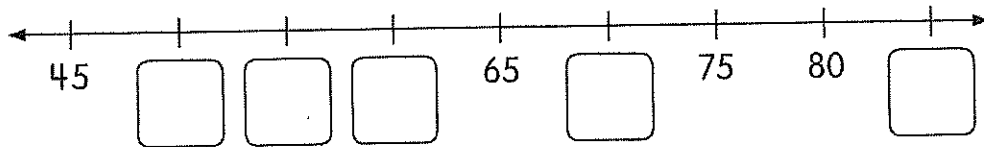
Name the shape that is shaded.

35.



Look at the number line.
Fill in the missing numbers.

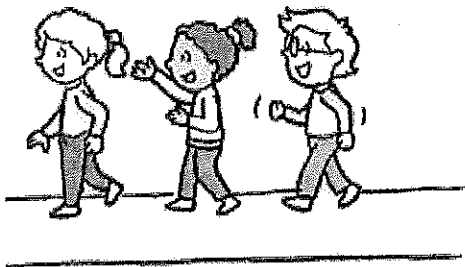
36.



Look at the picture.
Circle the correct word.

37.

Liz Anita Ethan



- a. Liz is first last from the left.
b. Ethan is in front of behind Anita.

Name: _____

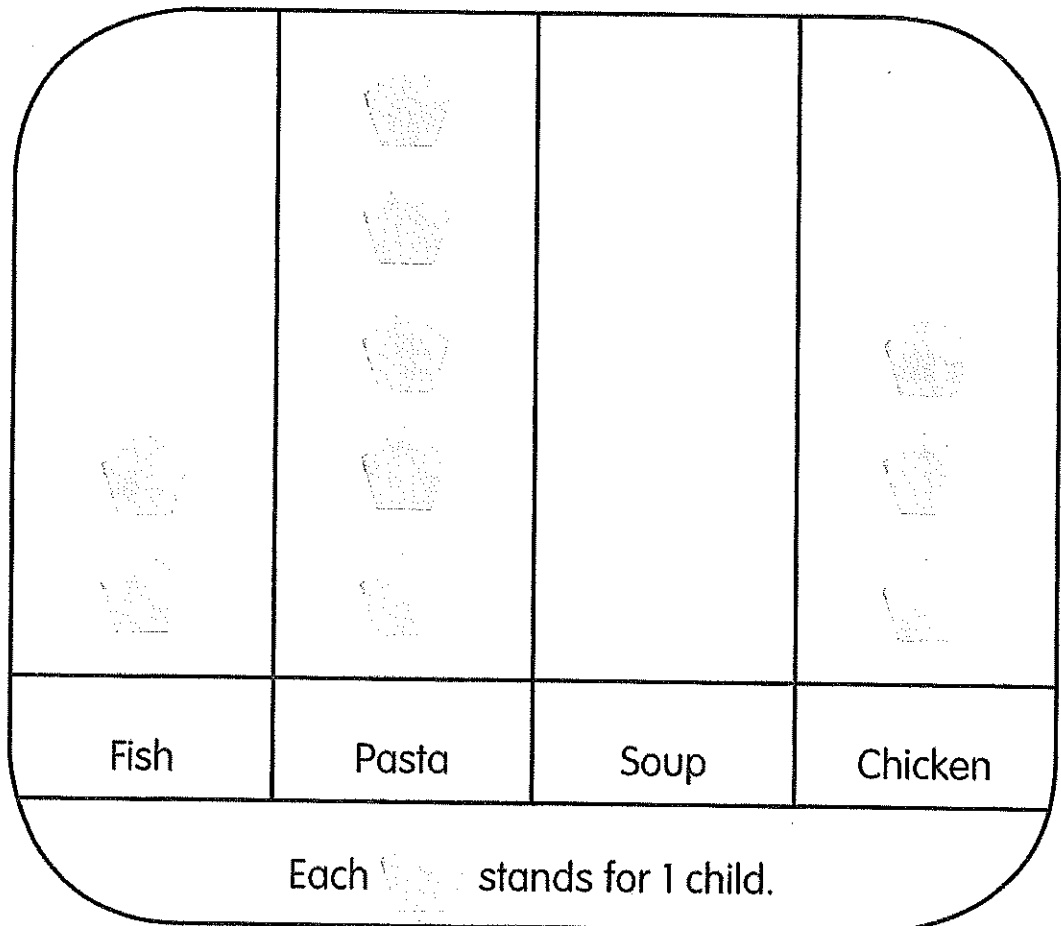
Date: _____

Extended Response

The picture graph shows the favorite food of 12 children.


38.

Favorite Food



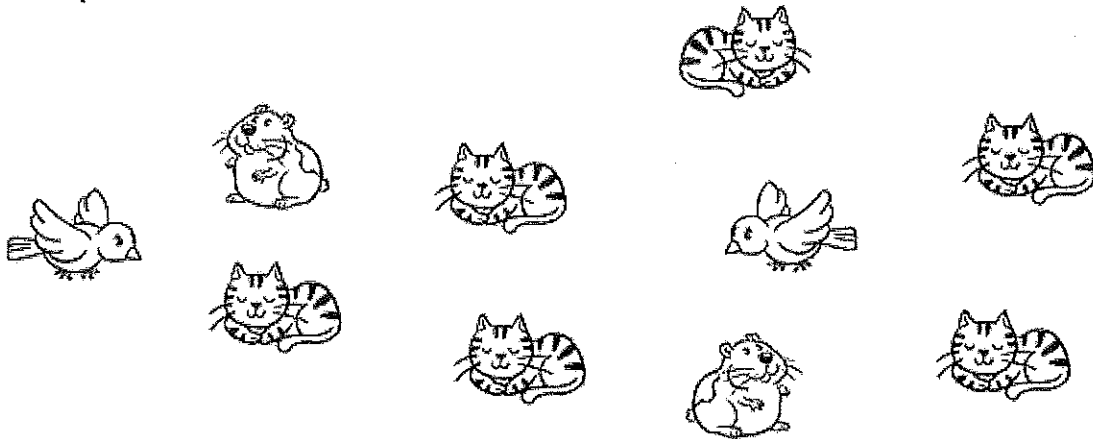
Solve.

- a. The same number of children named fish and soup as their favorite food.

Draw  to show the number of children who like soup.




- b. _____ is the favorite food for the most children.

Ten families live on the same street.
 Every family has one pet.
 The picture shows their pets.



Complete the tally chart to show the pet data.
 Then answer the questions.

39.

Kinds of Pets	Tally	Number
Hamster 		
Cat 		
Bird 		

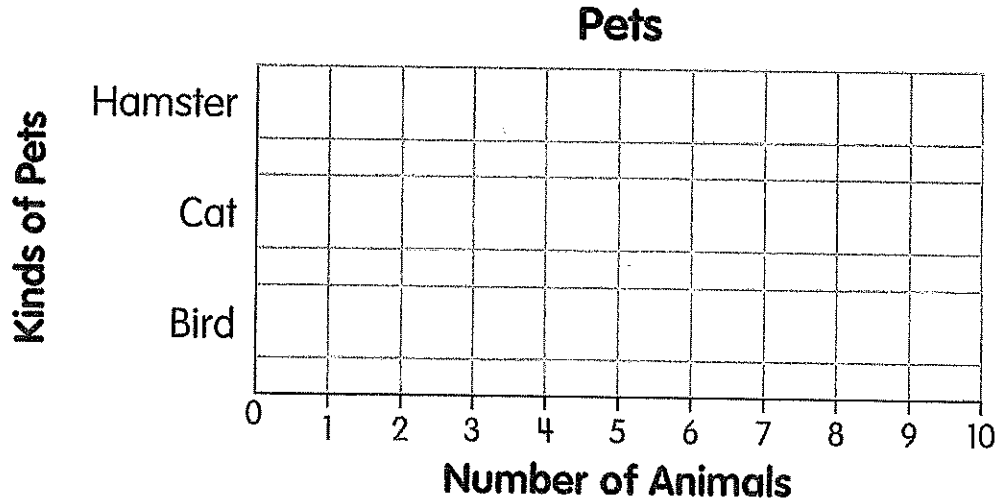
- How many pets are there in all? _____
- Which pet has the greatest number? _____

Name: _____

Date: _____

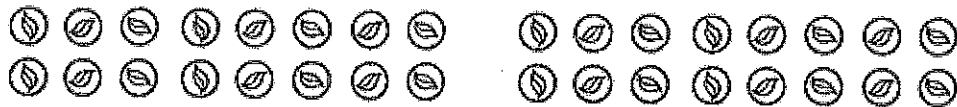
Make a bar graph using the data from the tally chart.

c.



Solve.

- 40.** Sam has 32 marbles
He puts all the marbles in bags.
He puts 4 marbles in each bag.
How many bags does he use?



He uses _____ bags.

Name: _____

Date: _____

Summer Math Packet for Students Entering 3rd Grade

Mid-Year Review

Test Prep

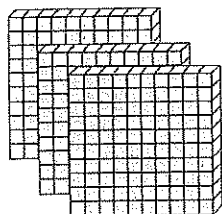
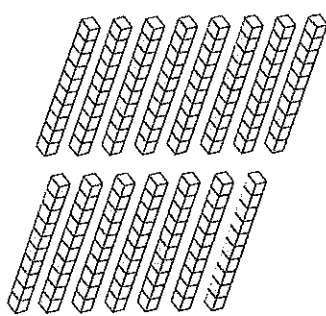
Multiple Choice

Fill in the circle next to the correct answer.

1. Which shows three hundred four?

- (A) 34 (B) 304 (C) 340 (D) 344

2. Which number is shown in the chart?

Hundreds	Tens	Ones
		

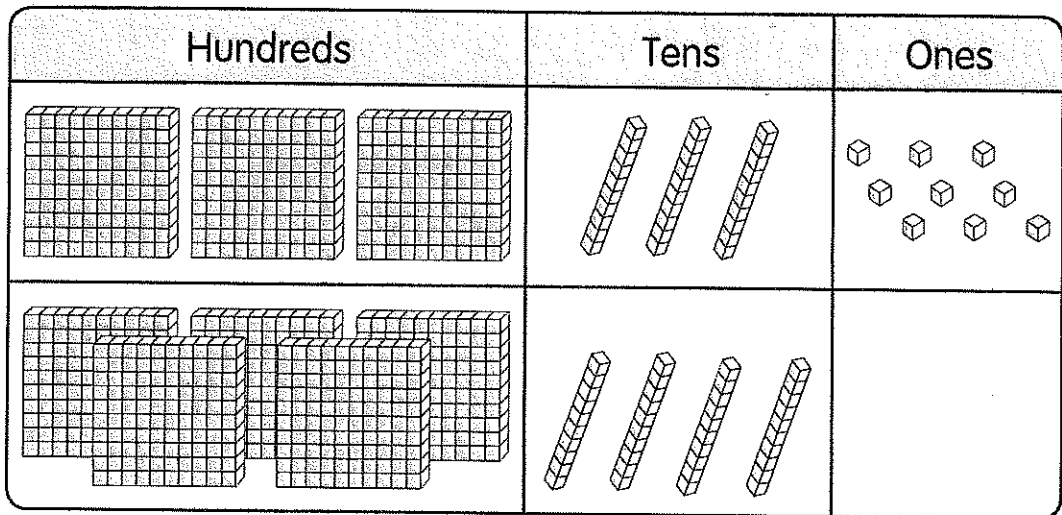
- (A) 450 (B) 405 (C) 350 (D) 315

3. Continue the pattern.

540, 650, 760, 870, _____

- (A) 890 (B) 950 (C) 980 (D) 1000

4. Add the two numbers shown on the chart.

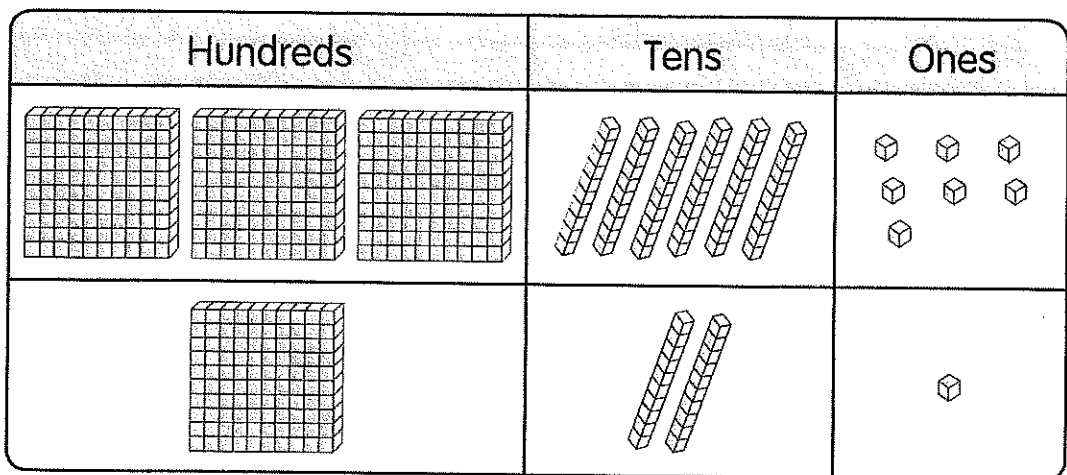


- (A) 879 (B) 560 (C) 319 (D) 241

5. $275 + 16 = \underline{\hspace{2cm}}$

- (A) 281 (B) 291 (C) 381 (D) 415

6. Subtract the two numbers shown on the chart.



- (A) 488 (B) 367 (C) 246 (D) 121

Name: _____

Date: _____

7. Subtract.

$$\begin{array}{r} 547 \\ - 254 \\ \hline \end{array}$$

- (A) 801 (B) 393 (C) 313 (D) 293

8. Use these digits.

2 **7** **5**

Make the greatest 3-digit number.
Then make the least 3-digit number.
Then subtract the two numbers.

- (A) 587 (B) 505 (C) 495 (D) 477

9. Darren has 86 marbles.
Max has 74 marbles.
How many marbles do they have in all?

- (A) 12 (B) 86 (C) 150 (D) 160

10. Felix has \$125.
He uses \$70 to buy a pair of shoes.
How much does he have left?

- (A) \$195 (B) \$87 (C) \$75 (D) \$55

11. Look at the picture.



How many flowers are there?

- (A) $7 + 5$ (B) 7×5 (C) 5×2 (D) 5×10
12. The length of a placemat is about _____.
- (A) 40 cm (B) 40 m (C) 1 cm (D) 1 m
13. Rosa has a ribbon 100 centimeters long.
She uses 45 centimeters of it.
What is the length of ribbon left?
- (A) 155 cm (B) 100 cm (C) 55 cm (D) 65 cm
14. Letoya buys 35 books on Monday.
She buys 21 books on Tuesday.
She sells 40 of these books.
How many books does she have left?
- (A) 14 (B) 16 (C) 56 (D) 96
15. A carton of milk has a mass of 450 grams.
Two cartons are put into a box with a mass of 37 grams.
What is the total mass of the cartons and the box?
- (A) 413 g (B) 863 g (C) 937 g (D) 974 g

Name: _____

Date: _____

Short Answer

Read the questions carefully.
Write your answers in the space provided.

16. Write 386 in words.

17. Write 520 in expanded form.

18. Order the numbers from greatest to least.

609

712

699

543

_____, _____, _____, _____

19. Add 438 and 156. _____

$$\begin{array}{r} 438 \\ + 156 \\ \hline \end{array}$$

20. Subtract 17 from 831. _____

21. Subtract 284 from 861. _____

22. Fill in the blanks.

$7 \times 2 = \underline{\hspace{2cm}}$

$2 \times 7 = \underline{\hspace{2cm}}$

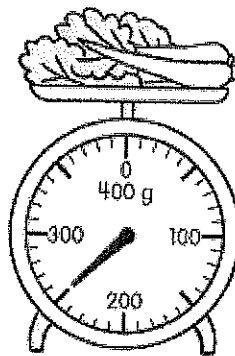
$\underline{\hspace{2cm}} \div 2 = 7$

$\underline{\hspace{2cm}} \div 7 = \underline{\hspace{2cm}}$

23. What is the length of Drawing A? _____ cm

_____ Drawing A

24. What is the mass of the vegetables?

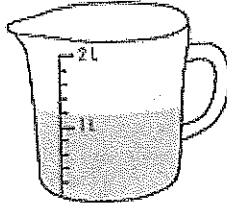


_____ g

Name: _____

Date: _____

25. Fill in the blank with *more than* or *less than*.



The container has _____ 1 liter of water.

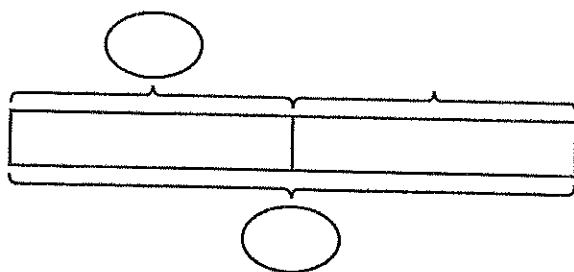
26. The Recycling Committee has \$746.
They raise \$198 more.
How much do they have now?

\$ _____

27. In a game, the Green Team scored 270 points.
The Yellow Team scored 363 points.
How many more points did the Yellow Team score
than the Green Team?

_____ points

- 28.** Gina has 200 beads.
94 of the beads are red.
The rest are yellow.
How many yellow beads does Gina have?
Complete the bar model.
Then find the answer.



Gina has _____ yellow beads.

- 29.** 138 cars and 27 vans are in a parking lot.
How many vehicles are there in all?
Draw a bar model.
Then find the answer.

There are _____ vehicles in all.

Name: _____

Date: _____

- 30.** The mass of a bottle of oil is 2 kilograms.
What is the mass of 9 such bottles?

The mass is _____ kilograms.

- 31.** Eva has 40 crayons.
She gives them to her friends to be shared equally.
Each friend receives 5 crayons.
How many friends are there?

There are _____ friends.

Extended Response

Solve.

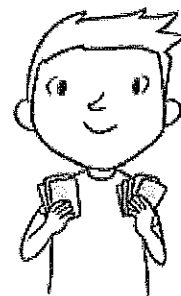
Show your work.

- 32.** The Finch family drives 352 miles on vacation.
The Perez family drives 168 miles more than the Finch family.
- a. How far does the Perez family drive?
 - b. How many miles do they drive in all?

a. The Perez family drives _____ miles.

b. They drive _____ miles in all.

- 33.** Tasha has 249 cards.
Tim has 53 fewer cards than Tasha.
Lee has 79 more cards than Tim.
How many cards does Lee have?



Lee has _____ cards.

Name: _____

Date: _____

34. Mikayla has 5 strings of beads.
Each string has 4 beads on it.

Mikayla divides her beads into 2 strings of beads.

- a. How many beads does Mikayla have in all?
- b. How many beads are there on each string in the end?

a. Mikayla has _____ beads in all.

b. There are _____ beads on each string in the end.

35. The height of Kory's desk is 58 centimeters.
The height of Kory's door is 239 centimeters.

- a. What is the total height of Kory's desk and door?
- b. What is the difference in height between Kory's desk and door?

a. The total height of Kory's desk and door is
_____ centimeters.

b. The difference in height between Kory's desk and door is
_____ centimeters.

- 36.** A barrel contains 60 liters of rainwater.
Mrs. Potts uses 14 liters of rainwater to water her vegetable garden.
She uses another 13 liters of rainwater to wash her car.
How much rainwater is left in the barrel?

_____ liters of rainwater are left in the barrel.

- 37.** Ling mixes 120 cups of lemonade in the morning.
She mixes 93 cups of lemonade in the afternoon.
- a.** How many cups of lemonade does she mix in all?
 - b.** She sells 207 cups of lemonade.
How many cups of lemonade does she have left?

a. She mixes _____ cups of lemonade in all.

b. She has _____ cups of lemonade left.

Name: _____

Date: _____

End-of-Year Review

Test Prep

Multiple Choice

Fill in the circle next to the correct answer.

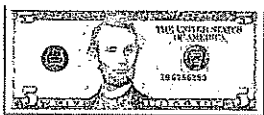
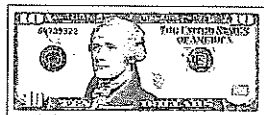
- Which of the following is correct?
 (A) In 345, the digit 3 is in the ones place.
 (B) In 345, the digit 5 is in the ones place.
 (C) In 345, the digit 5 is in the tens place.
 (D) In 345, the digit 4 is in the hundreds place.
- 24 divided by 4 is _____.
 (A) 3 (B) 4 (C) 5 (D) 6
- The sum of 500 and 43 is _____.
 (A) 345 (B) 354 (C) 435 (D) 543
- Farmer Ben has 456 chickens.
He has 336 ducks.
What is the difference between the number of chickens and ducks?
 (A) 130 (B) 120 (C) 576 (D) 932
- $45 \div 5 =$ _____.
 (A) 6 (B) 7 (C) 8 (D) 9

6. Rope A is 45 feet long.
Rope B is 71 feet long.
How much longer is Rope B than Rope A?
- (A) 26 ft (B) 34 ft (C) 36 ft (D) 116 ft

7. Roma weighs 42 kilograms.
Ana weighs 39 kilograms.
What is their total mass?
- (A) 3 kg (B) 71 kg (C) 81 kg (D) 711 kg

8. $137 + 40 = \underline{\hspace{2cm}}$
- (A) 177 (B) 187 (C) 237 (D) 277

9.



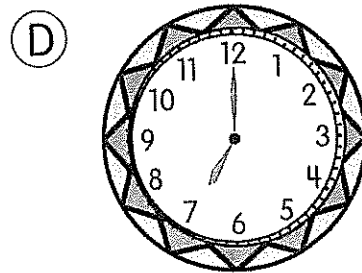
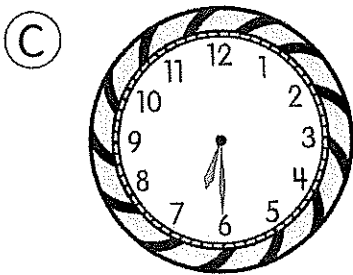
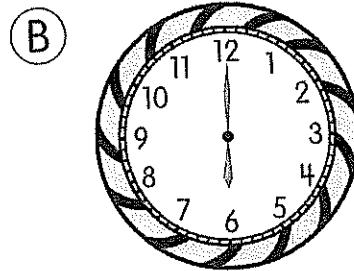
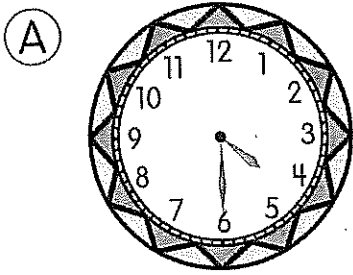
Which is the correct amount of money shown?

- (A) \$16.00 (B) \$20.50 (C) \$16.24 (D) \$19.34

Name: _____

Date: _____

10. Angeline finished her dinner at 6:00 p.m.
She went for a walk and came home 30 minutes later.
Which clock shows the time Angeline reached home?



11. Which has only flat surfaces?

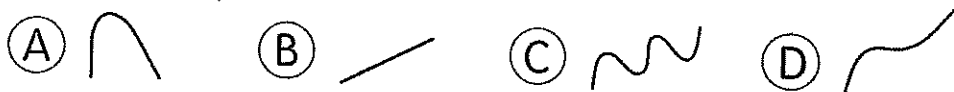
- (A) a banana
- (B) a bottle
- (C) a balloon
- (D) a square box

12. Yumi buys a violin for \$287.
She gives the cashier \$300.
How much change does she get?
13. Zach makes 24 liters of apple juice for his class party.
He makes 5 liters more of grape juice.
How much grape juice does Zach make?

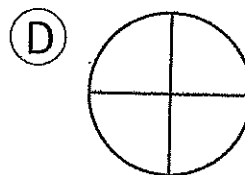
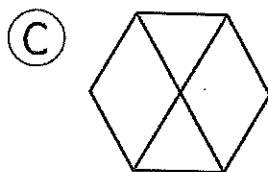
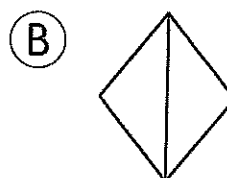
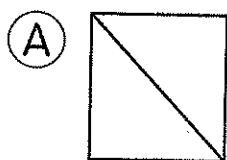
(A) \$20 (B) \$17 (C) \$23 (D) \$13

(A) 19 L (B) 21 L (C) 25 L (D) 29 L

14. Which is a part of a line?



15. Which is not divided into equal parts?



Name: _____

Date: _____

Short Answer

Read the questions carefully.

Write your answers in the space provided.

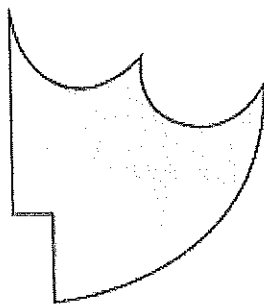
16. What is $345 + 70$? _____

17. ☆ stands for 4 people.
What does ☆ ☆ ☆ ☆ ☆ ☆ stand for? _____

18. What is $920 - 80$? _____

19. What is 8×4 ? _____

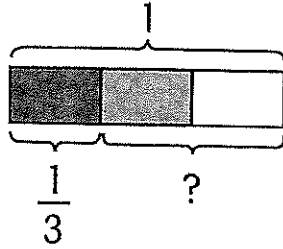
20. How many parts of lines and curves are there?



_____ parts of lines

_____ curves

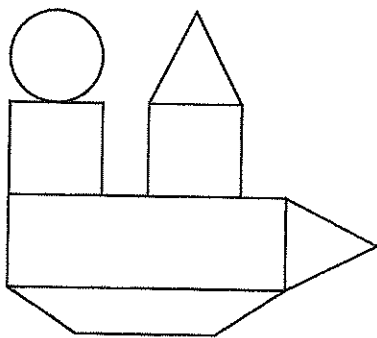
21. Joy and Andrew share a shepherd's pie.
 Joy ate $\frac{1}{3}$ of the pie.
 What fraction of the pie does Andrew eat?

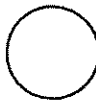


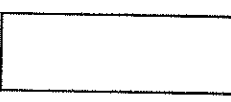
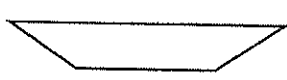


Andrew eats _____ of the pie.

22. Rina started reading at 2:00 P.M.
 She finished reading 1 hour later.
 At what time did Rina finish reading? _____ P.M.

23. How many of each shape are there?



Shape	How many?
	
	
	
	
	

Name: _____

Date: _____

Fill in the blanks.

24. $789 = 7$ hundreds, _____ tens, and 9 ones

25. $2 \times 4 =$ _____

_____ $\div 2 = 4$

_____ $\div 4 = 2$

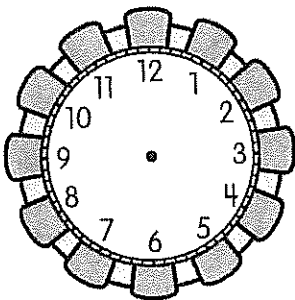
26. $5 \times 3 =$ _____

$7 \times 3 = 5$ groups of 3 + _____ groups of 3

$=$ _____ + _____

$=$ _____

27. Draw the hands on the clock to show 9:10.



Draw a part of a line, 6 inches long.



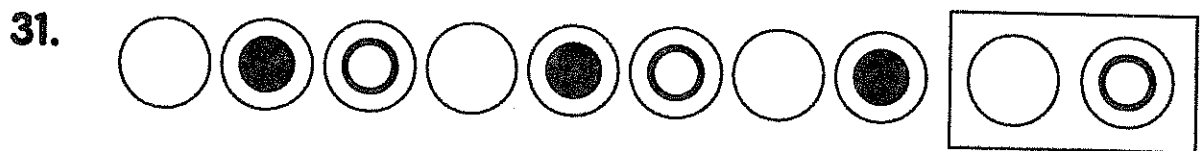
Complete the number pattern.

29. 820, 840, 860, _____, _____, _____, 940

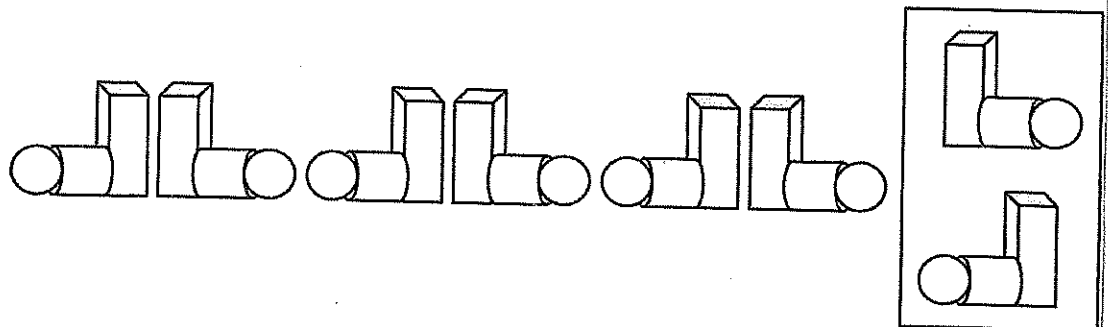
Draw what comes next.



Look at the pattern. Check (✓) what comes next.



32.

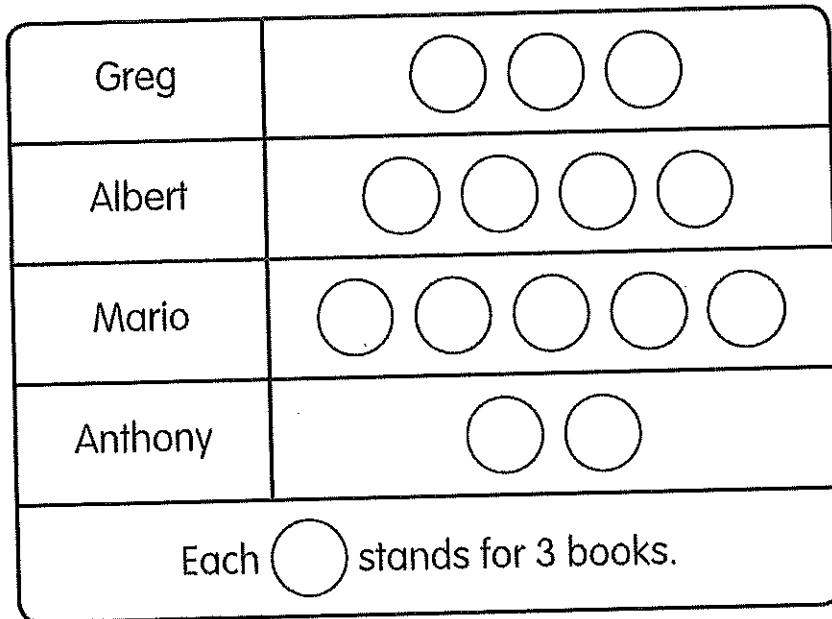


Name: _____

Date: _____

Extended Response

The picture graph shows the number of storybooks each boy has.



Use the picture graph to fill in the blanks.

33. How many books does Greg have?

There are _____  for Greg.

_____ \times _____ = _____

Greg has _____ storybooks.

34. How many books do Albert and Anthony have in all?

There are _____ for Albert and Anthony.

_____ \times _____ = _____

Albert and Anthony have _____ books in all.

35. How many storybooks does the boy with the greatest number of books have?

There are _____ for _____.

_____ \times _____ = _____

He has _____ books in all.

36. How many more books does Mario have than Anthony?

Mario has 5 .

_____ \times _____ = _____

Anthony has _____ .

_____ \times _____ = _____

_____ $-$ _____ = _____

Mario has _____ more books than Anthony.

Name: _____

Date: _____

Solve.

Show your work.

- 37.** Sam has 30 books.
He puts 5 books in one box.
How many boxes does he need?

He needs _____ boxes.

- 38.** Lily has 6 bags.
Each bag holds 4 kilograms of flour.
How many kilograms of flour are there in all?

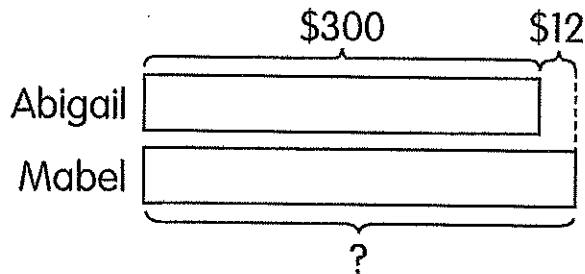
There are _____ kilograms of flour in all.

Solve.

Show your work.

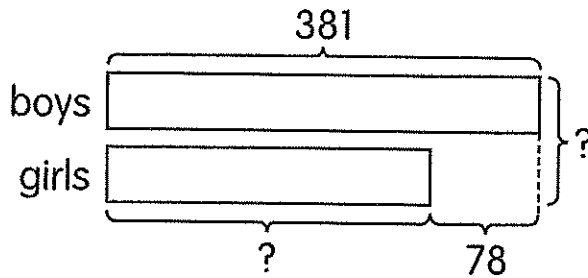
Use bar models to help you.

- 39.** Abigail has \$300. Mabel has \$12 more than Abigail.
How much money does Mabel have?



Mabel has \$_____.

- 40.** 381 boys take part in a game.
78 fewer girls than boys take part in the game.
- How many girls take part in the game?
 - How many children take part in the game?



- _____ girls take part in the game.
- _____ children take part in the game.

Name: _____

Date: _____

Summer Math Packet for Students Entering 4th Grade

Mid-Year Review

Test Prep

Multiple Choice

Fill in the circle next to the correct answer.

1. In the number 6,592, the digit 5 is in the _____ place. (Lesson 1.2)

- (A) ones (B) tens
(C) hundreds (D) thousands

2. Which number is 1,000 more than 1,629? (Lesson 1.3)

- (A) 629 (B) 1,619
(C) 1,729 (D) 2,629

3. Estimate the sum of 342 and 525. Use front-end estimation. (Lesson 2.5)

- (A) $300 + 500 = 800$ (B) $300 + 530 = 830$
(C) $340 + 500 = 840$ (D) $340 + 530 = 870$

4. Estimate the difference between 828 and 535.
Use rounding to the nearest hundred. (Lesson 2.4)

- (A) $900 - 500 = 400$
(B) $800 - 500 = 300$
(C) $900 - 600 = 300$
(D) $800 - 600 = 200$

5. $0 \times 9 =$ _____ (Lesson 6.1)

(A) 0

(B) 9

(C) 90

(D) 900

6. To find the answer to $38 + 48$, You can add 50 to _____
(Lesson 2.1)

(A) 38, then add 2

(B) 38, then subtract 2

(C) 48, then add 2

(D) 48, then subtract 2

7. What is the missing digit? (Lesson 3.3)

$$\begin{array}{r} 5, 3, 2, \square \\ + 3, 6, \square, 4 \\ \hline \square, 0, 2, 3 \end{array}$$

(A) 1

(B) 2

(C) 5

(D) 9

8. There are four numbers on a whiteboard:

1,390, 1,125, 1,580, and 1,625.

The difference between two of the numbers is 235.

What are the two numbers? (Lesson 4.3)

(A) 1,580 and 1,390

(B) 1,625 and 1,390

(C) 1,390 and 1,125

(D) 1,580 and 1,125

Name: _____

Date: _____

17. What is the value of the digit 5 in the number 5,631? (Lesson 1.2)

18. Use the digits below to make three 3-digit odd numbers and three 3-digit even numbers. Do not repeat the same digits in a number.
(Lesson 8.3)

1 8 2 3 9 4 7

Odd numbers: _____

Even numbers: _____

19. Add $1,850 + 59$. (Lesson 3.2)

20. $70 \times 4 = ?$ (Lesson 7.1)

21. In $59 \div 2$, the quotient is _____, and the remainder is _____.
(Lesson 8.2)

- 22.** Shaun takes 300 photographs at the zoo.
Sheena takes twice as many photographs as Shaun.
How many photographs do they take in all? (Lesson 9.1)

_____ photos

- 23.** Shannon has 78 animal stickers.
She has three times as many animal stickers as her brother, Ryan.
How many animal stickers does Ryan have? (Lesson 9.3)

_____ paperclips

- 24.** The sum of two numbers is 1,500.
The difference between these two numbers is 300.
Find these two numbers from the numbers provided. (Lessons 3.2 and 4.1)

1,200 600 300 700 800 900

- 25.** Caroline packs some glue sticks into 8 bags.
She has 12 glue sticks left over.
If there are 25 glue sticks in each bag, how many
glue sticks did she have at first? (Lessons 7.3 and 3.1)

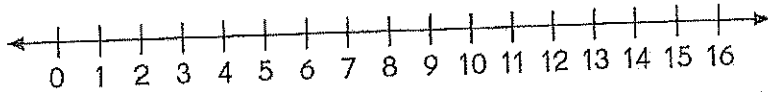
Name: _____

Date: _____

26. What is the product of $1 \times 7 \times 2$?
Use the number lines to help you. (Lessons 6.1 and 6.2)

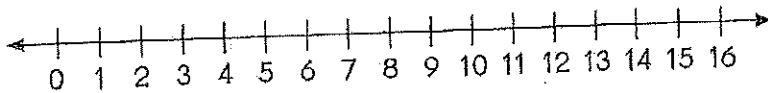
$$1 \times 7 \times 2 = 1 \times \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}}$$



$$1 \times 7 \times 2 = \underline{\hspace{2cm}} \times 2$$

$$= \underline{\hspace{2cm}}$$



So, $1 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \times 2$

$$= \underline{\hspace{2cm}}$$

27. Find the sum of 938 and 8,163. (Lesson 3.3)

28. Find the difference between 6,215 and 8,356. (Lesson 4.3)

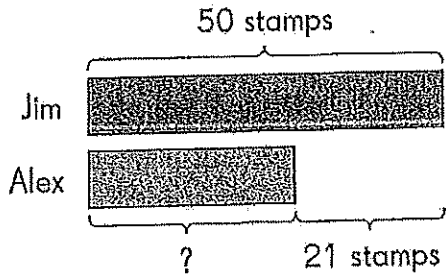
29. Find the product of 154 and 4. (Lesson 7.3)

30. Use the digits below to form two 2-digit numbers.
Each number has a remainder of 1 when divided by 4. (Lesson 8.2)

1 3 7 9

31. Find the difference between $45 \div 5$ and 5×7 . (Lessons 4.3, 6.3, and 7.1)

32. Use the model, How many stamps does Alex have? (Lesson 5.1)



_____ stamps

33. A craft store sells 1,124 fewer pieces of red art paper than blue art paper.
It sells 2,317 pieces of red art paper.
How many pieces of red and blue art paper does the craft store sell?
(Lessons 3.3 and 4.3)

_____ pieces

34. Ngu walks 250 feet.
She walks 65 feet more than Pauline.
How far does Pauline walk? (Lesson 4.3)

_____ feet

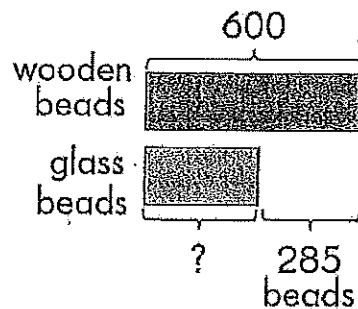
35. Oomi makes 4 necklaces.
She uses 156 beads for each necklace.
How many beads does she use in all? (Lesson 7.3)

_____ beads

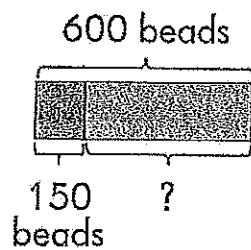
Extended Response

Solve. Show your work.

36. Jolene has 600 wooden beads.
She has 285 fewer glass beads than wooden beads.
a. How many glass beads does Jolene have?



- b. How many wooden beads does she have if she uses 150 of them to make necklaces?



Name: _____

Date: _____

- 37.** Company A gets 3,700 hits on their website.
Company B gets 450 fewer hits than Company A.
- a. How many hits does Company B get?

- b. How many hits do both companies get in all?

38. Noah swims 80 laps in 5 days.
He swims the same number of laps every day.

a. How many laps does he swim in a day?

b. How many laps does he swim in 4 days?

Name: _____

Date: _____

- 39.** Jose has 88 stickers.
He puts 4 stickers on each bookmark.
He gives all his bookmarks away to his friends.
Each friend receives 2 bookmarks.
- a. How many bookmarks does he put stickers on?

- b. How many friends does he have?

40. A factory delivers 5 containers of pottery to a store.
Each container has 162 pieces of pottery.
The store owner discovers 24 pieces of pottery are broken.
How many pieces of pottery are not broken?

End-of-Year Review

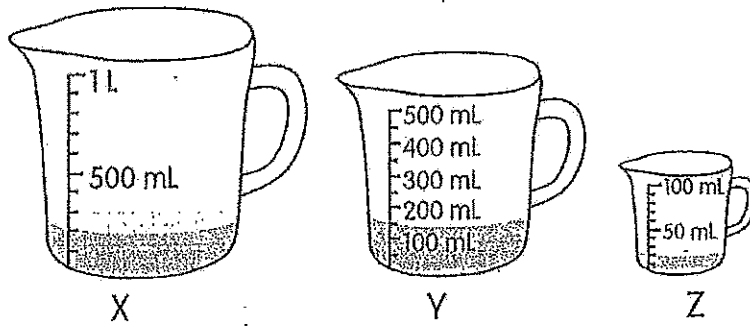
Test Prep

Multiple Choice

Fill in the circle next to the correct answer.

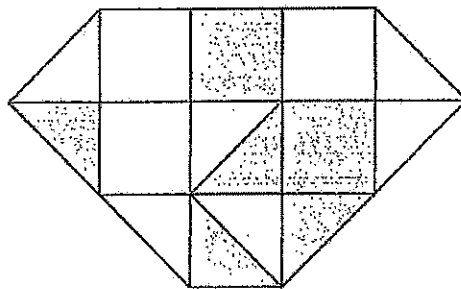
- John spends \$1.35 on bus fare and \$2.50 on food each day. How much does he spend in two days? (Lesson 10.1)
(A) \$3.85 (B) \$6.60
(C) \$6.70 (D) \$7.70
- Paige jogs around a 400-meter track 3 times a day. What is the distance she jogs each day? (Lesson 11.2)
(A) 400 m (B) 1 km 200 m
(C) 1 km 400 m (D) 10 km 200 m
- Which mass is not the same as the others? (Lesson 11.3)
(A) 7,220 g (B) 7,022 g
(C) 7,000 g + 22 g (D) 7 kg 22 g
- Which is incorrect? (Lesson 14.3)
(A) $\frac{1}{2} = \frac{2}{4} = \frac{3}{6}$ (B) $\frac{1}{3} = \frac{2}{6} = \frac{3}{9}$
(C) $\frac{2}{3} = \frac{4}{6} = \frac{6}{12}$ (D) $\frac{2}{2} = \frac{4}{4} = \frac{11}{11}$

5. Look at the measuring cups. (Lesson 11.4)



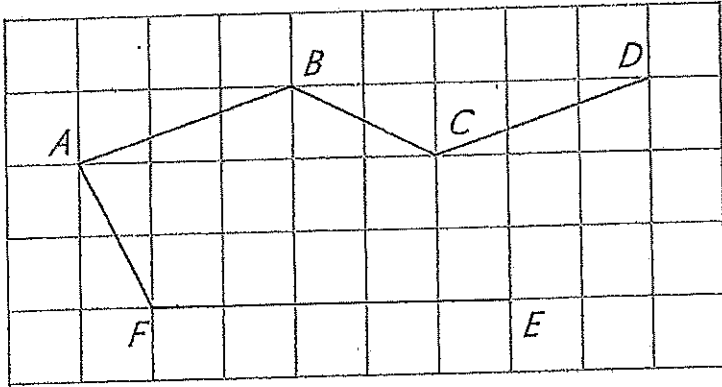
Which is correct?

- (A) There is 500 milliliters more water in X than Y.
(B) There is a total of 1,500 milliliters of water in X and Y.
(C) Z contains 180 milliliters less water than X.
(D) The difference in the volume of water in Y and Z is 170 milliliters.
6. What fraction of the figure is shaded? (Lesson 14.1)



- (A) $\frac{1}{5}$ (B) $\frac{2}{5}$
(C) $\frac{6}{13}$ (D) $\frac{2}{3}$

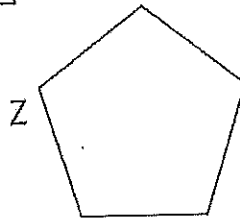
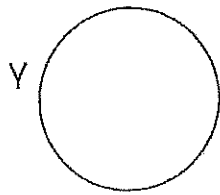
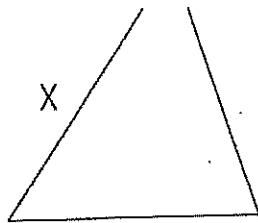
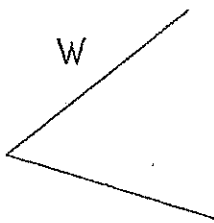
7. Look at the line segments. (Lesson 17.6)



Which line segments are parallel?

- (A) Segments AB and AF
- (B) Segments BC and EF
- (C) Segments AF and BC
- (D) Segments AB and CD

8. Which is a polygon? (Lesson 18.1)



- (A) Figure W
- (B) Figure X
- (C) Figure Y
- (D) Figure Z

9.

Which tarts weigh the same? (Lesson 15.2)

Tarts	Weight
Lemon	2 pounds
Blueberry	3 pounds
Strawberry	24 ounces
Peach	32 ounces

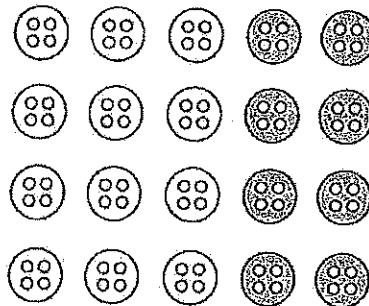
- (A) Lemon and Strawberry
 (B) Lemon and Peach
 (C) Blueberry and Strawberry
 (D) Blueberry and Peach

10.

8 of the 20 buttons in a box are gray.

The rest are white.

What fraction of the buttons are white? (Lesson 14.6)



(A) $\frac{2}{5}$

(B) $\frac{3}{5}$

(C) $\frac{4}{5}$

(D) $\frac{3}{7}$

Name: _____

Date: _____

Short Answer

Read the questions carefully. Write your answers in the space provided.

11. Order the fractions from greatest to least. (Lesson 14.4)

$$\frac{1}{4}, \frac{7}{8}, \frac{3}{4}$$

12. String A is 28 inches long. String B is 4 feet long.
Which is longer? (Lesson 15.1)

String _____

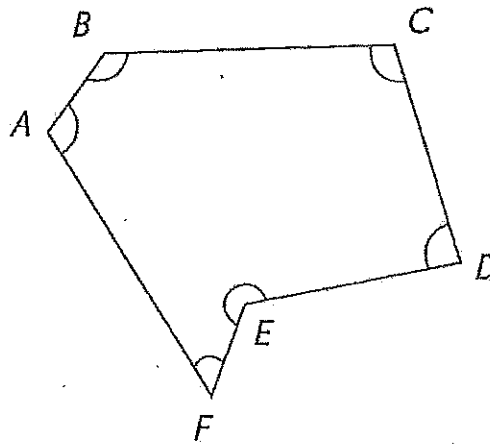
13. George starts on his science project at 8:25 A.M. He finishes at 10:10 A.M. How long did he take? (Lesson 16.5)

_____ h _____ min

14. Mrs. Freeman puts 3 cups of lemon juice in a punch bowl. She adds 6 pints of water. How many cups of liquid are there in total? (Lesson 15.3)

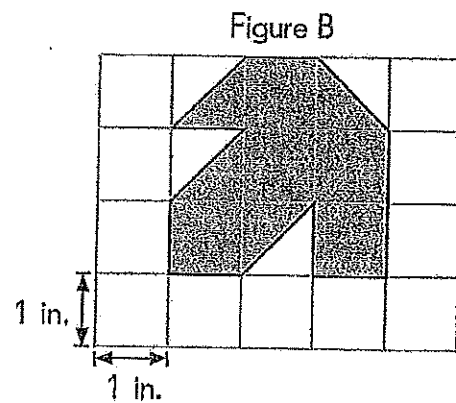
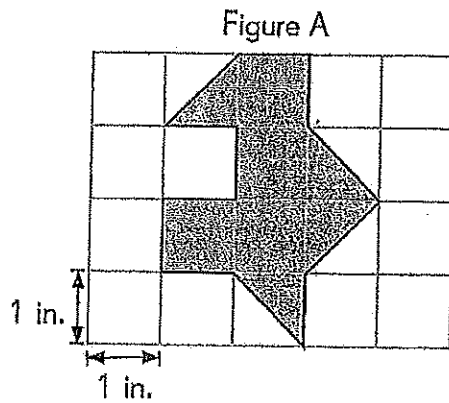
_____ cups

15. Which angles in the figure are less than a right angle? (Lesson 17.3)



Angles _____ and _____

Look at the figures to answer Exercises 16 and 17. (Lesson 19.4)



16. Which figure has a greater area?

Figure _____

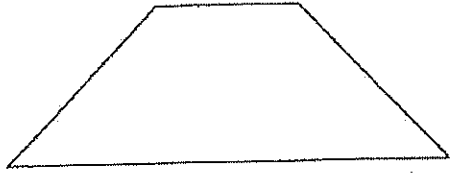
17. How much greater?

_____ in.²

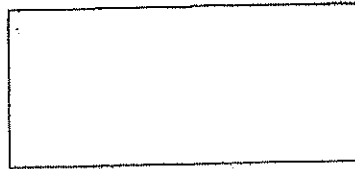
Name: _____

Date: _____

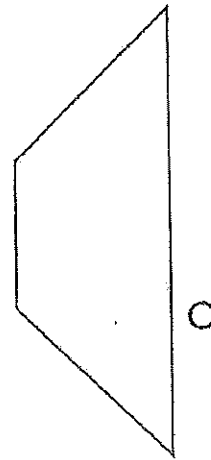
18. Which figures are congruent? (Lesson 18.2)



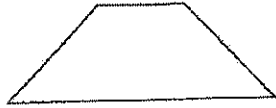
A



B



C



D

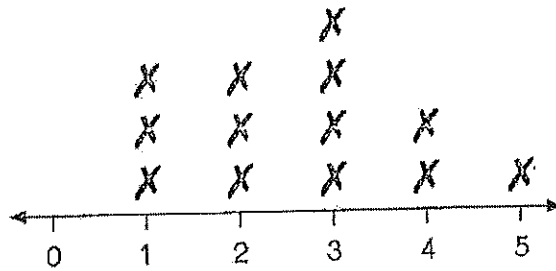


E

Figures _____ and _____

Look at the line plot to answer Exercises 19 and 20.

Beth surveyed her friends on the number of books they read last week. She drew a line plot to show her data. (Lesson 13.3)



Number of Books Read Last Week

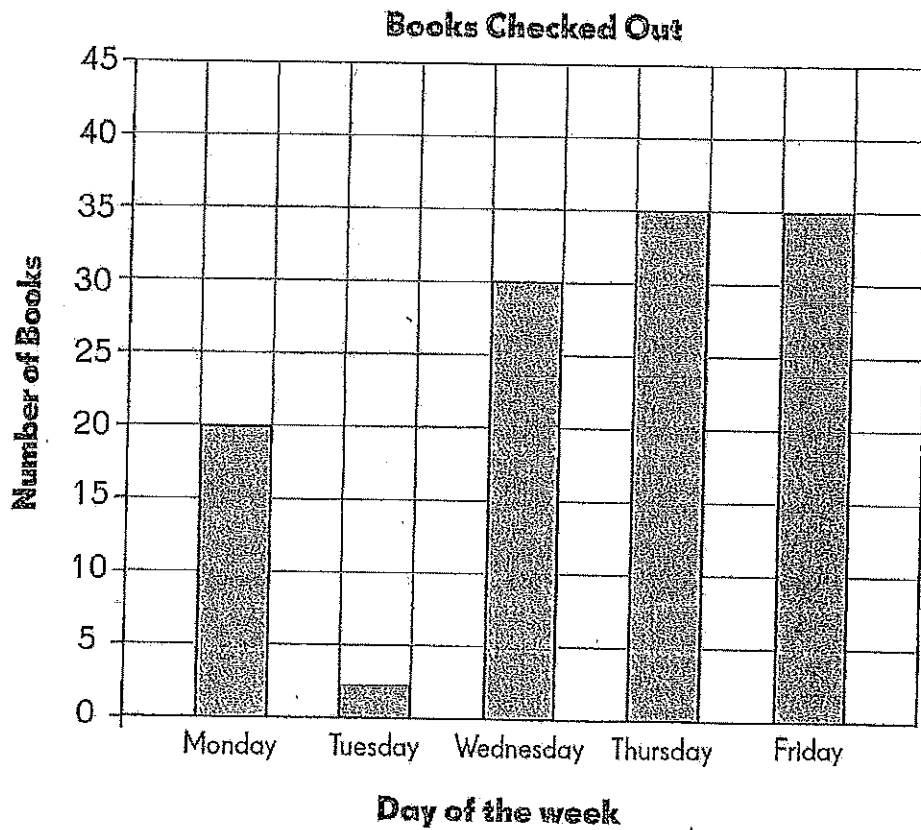
19. How many friends did she survey?

20. How many friends read more than three books last week?

Extended Response

The table and the bar graph show the number of books checked out of a library over five days. Some of the bars on the bar graph were incorrectly drawn.

Books Checked Out	
Monday	20
Tuesday	25
Wednesday	30
Thursday	35
Friday	40



Name: _____

Date: _____

Look at the table and bar graph to answer Exercises 21 to 26.

- 21.** Complete the bar graph for Tuesday.
- 22.** One bar on the bar graph was incorrectly drawn for one of the days. On which day is it?

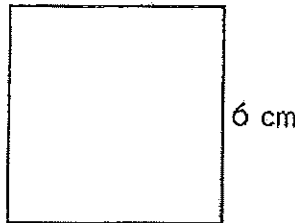
- 23.** Show the correct number of books checked out for that day in the bar graph.
- 24.** How many books were checked out during that week?
_____ books
- 25.** On which day was the number of books checked out twice as many as Monday?

- 26.** Look at the number of books checked out from Monday to Friday. What is the pattern?

Solve . Show your work.

- 27.** After a garage sale, Norman makes \$105.50. Julie makes \$38.75 more than Norman. Lana makes \$19.20 less than Julie. How much does Lana make?

- 28.** Colin uses a wire to make a square. Each side is 6 centimeters long. He then uses the same wire to make a triangle of three equal sides. How long is each side of the triangle?



Name: _____

Date: _____

Solve . Show your work.

29. Pauline went to a party.
She spends 3 hours 25 minutes there.
She goes home at 2:15 P.M.
What time did she go to the party?

Draw a timeline to help you.



Solve . Show your work.

30. A family has two dogs, a husky and a terrier. The husky's mass is 23 kilograms. If he gains 7 kilograms, his mass will be five times that of the terrier. What is the mass of the terrier?

Name: _____

Date: _____

Summer Math Packet for Students Entering 5th Grade

Mid-Year Review

Test Prep

Multiple Choice

Fill in the circle next to the correct answer.

- 13 thousands + 4 tens + 8 ones in standard form is _____. (Lesson 1.1)
 (A) 1,348 (B) 10,348
 (C) 13,048 (D) 13,480
- In the number 83,415 the value of the digit 3 is _____. (Lesson 1.1)
 (A) 30 (B) 300
 (C) 3,000 (D) 30,000
- 1,000 more than 37,568 is _____. (Lesson 1.2)
 (A) 36,568 (B) 37,468
 (C) 37,668 (D) 38,568
- Estimate $681 - 307$ by rounding to the nearest 100. (Lesson 2.1)
 (A) 300 (B) 370
 (C) 374 (D) 400
- Which is the greatest common factor of 27 and 45? (Lesson 2.2)
 (A) 1 (B) 3
 (C) 9 (D) 45
- Which pair of numbers has both a prime and a composite number? (Lesson 2.2)
 (A) 4 and 7 (B) 3 and 13
 (C) 14 and 28 (D) 6 and 8

16. Which two fractions have a sum of $\frac{9}{10}$? (Lesson 6.1)

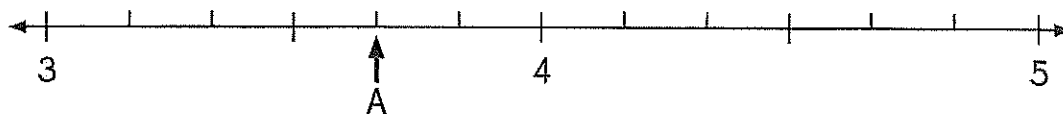
(A) $\frac{1}{2}$ and $\frac{4}{10}$

(B) $\frac{1}{2}$ and $\frac{1}{10}$

(C) $\frac{2}{5}$ and $\frac{1}{10}$

(D) $\frac{3}{4}$ and $\frac{6}{6}$

17. Which mixed number is represented by **A** on the number line? (Lesson 6.3)



(A) $3\frac{4}{5}$

(B) $3\frac{2}{3}$

(C) $4\frac{1}{3}$

(D) $4\frac{2}{3}$

18. How many fifths are in $2\frac{3}{5}$? (Lesson 6.4)

(A) 10

(B) 11

(C) 13

(D) 23

19. Express $\frac{14}{6}$ as a mixed number in simplest form. (Lesson 6.5)

(A) $1\frac{4}{6}$

(B) $1\frac{2}{3}$

(C) $2\frac{2}{6}$

(D) $2\frac{1}{3}$

20. Ms. Lee cut a piece of yarn into different fractional parts:

$\frac{1}{12}$, $\frac{1}{4}$ and $\frac{5}{12}$. What fraction of the yarn is left? (Lesson 6.7)

(A) $\frac{1}{4}$

(B) $\frac{5}{12}$

(C) $\frac{8}{12}$

(D) $\frac{3}{4}$

Short Answer

Read each question carefully. Write your answer in the space provided. Give your answers in the correct units.

21. Write forty thousand, sixteen in expanded form. (Lesson 1.1)

22. Arrange the numbers in order from least to greatest. (Lesson 1.2)

6,407 19,999 6,047 20,005

23. Estimate the quotient of $713 \div 9$. (Lesson 2.1)

24. The table shows the number of people who visited the space ride at a theme park. Complete the table. (Lesson 4.2)

Number of Visitors at the Space Ride

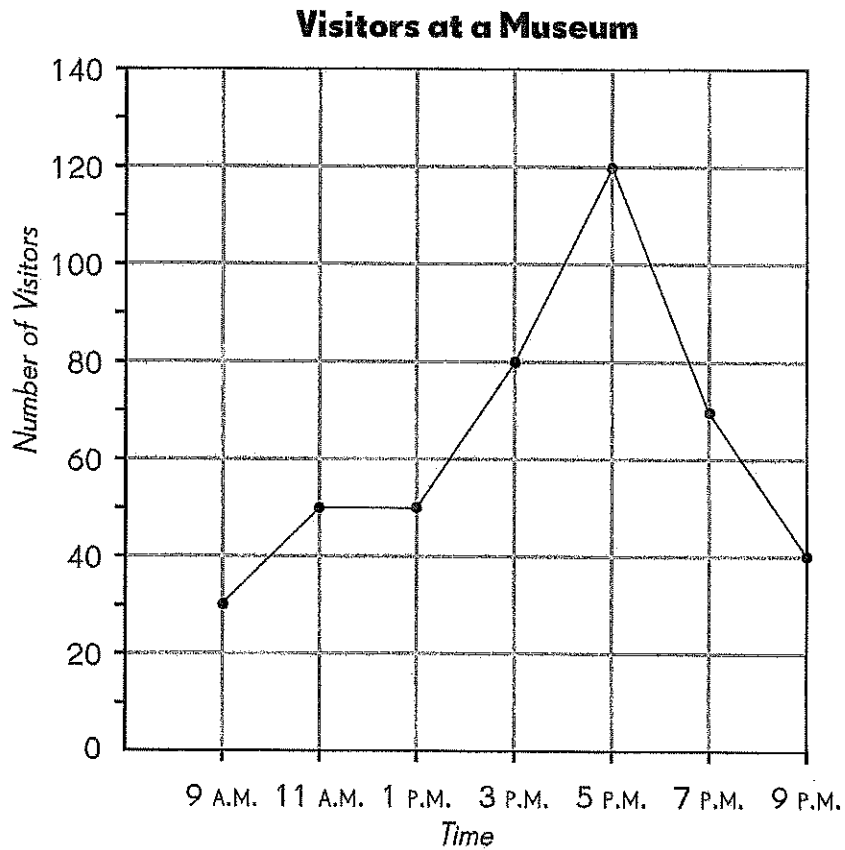
	Male	Female	Total
Adults	18		50
Children	32	38	

Use the table to answer Exercises 25 and 26.

25. How many people visited the space ride? (Lesson 4.2) _____

26. What fraction of the people who visited the space ride were children? (Lesson 6.7)

The line graph shows the number of visitors at a museum during the course of a day. (Lesson 4.3)



- 27.** By how much did the visitor population increase from 1:00 P.M. to 3:00 P.M.? _____
- 28.** During which interval did the visitor population decrease the most?

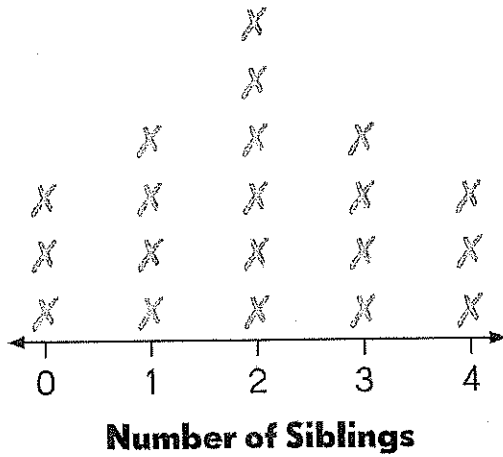
- 29.** During which interval did the same number of visitors arrive and depart?

Name: _____

Date: _____

Use the line plot to solve Exercises 30 and 31. (Lesson 5.2)

The line plot shows the number of siblings each student in John's class has.



30. Find the median of the set of data. _____

31. Find the mode of the set of data. _____

Use the stem-and-leaf plot to solve Exercises 32 and 33. (Lesson 5.3)

The stem-and-leaf plot shows the number of orchids produced by 10 greenhouse plants in one month.

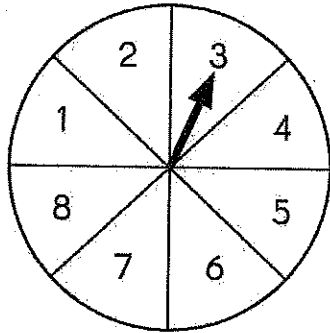
Number of Orchids	
Stem	Leaves
0	8 9
1	5 5 6
2	0 2 3 4
3	9

$0|8 = 8$

32. The median of the set of data is _____.

33. The outlier of the set of data is _____.

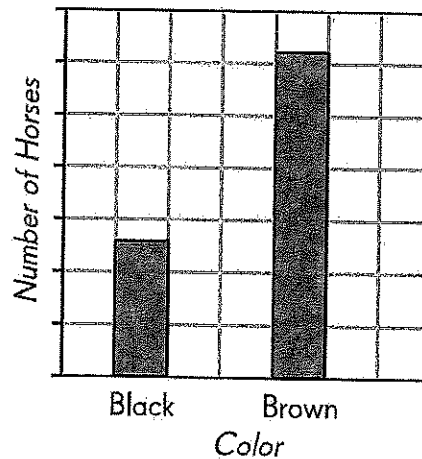
Look at the spinner. Write *more likely*, *less likely*, *equally likely*, *certain*, or *impossible*. Explain your answer. (Lesson 5.4)



34. The spinner is _____ to land on an odd number or an even number.
Reason: _____

The bar graph shows the color of the horses at a horse show.

Color of Horses at a Show



35. Which set is more likely to be the one shown in the bar graph? (Lesson 5.4)

Color of Horses at a Show

Color	Black	Brown
Set A	5	3
Set B	10	10
Set C	15	34

Name: _____

Date: _____

Answer each question.

- 36.** A bag has 5 red beads, 8 green beads, and 4 yellow beads. What is the probability of drawing a yellow bead from the bag? (*Lesson 5.5*)

- 37.** Find the sum of $\frac{1}{6}$, $\frac{1}{6}$, and $\frac{2}{3}$. (*Lesson 6.1*)

- 38.** What is $1\frac{1}{4} - \frac{5}{8}$? (*Lesson 6.6*)

39. A container and 6 lemons have a total weight of $\frac{4}{5}$ pound. Two lemons have a total weight of $\frac{1}{10}$ pound. Find the weight of the container if all the lemons have the same weight. (Lesson 6.8)
-

Extended Response

Solve. Show your work.

- 40.** A clinic needs 1,350 chairs for a charity event. Three stores donate chairs. Store A donates 216 chairs, Store B donates 420 chairs, and Store C donates 376 chairs. Does the clinic have enough chairs? Decide if you need to find an estimate or an exact answer. (Lesson 2.1)
- 41.** Barrie had some stamps. He gave $\frac{1}{8}$ of them to Tom. If he gave 15 stamps to Tom, how many stamps did he have at first? (Lesson 6.8)

Name: _____

Date: _____

42. Mr. Marchez ordered 7 books through a website. The total mass of the books was 3,458 grams. The masses of each book were

360 g 410 g 280 g 150 g 550 g ? ?

The masses of the remaining 2 books were not given. (Lesson 5.6)

a. Find the mean mass of the books.

b. Find the mean mass of the 2 remaining books.

c. The range of the masses is 710 grams, and the lightest mass is given above. What is the mass of the heaviest book?

- 43.** A factory packages 4,250 boxes of cereal. The number of oat cereal boxes is 715 more than the number of wheat cereal boxes. The number of fruit cereal boxes is 5 times the number of wheat cereal boxes. How many fruit cereal boxes does the factory package? (*Lesson 3.5*)
- 44.** Three people guess the number of cherries in a bag, rounded to the nearest 10. Alex guesses 80 cherries, Jess guesses 60 cherries, and Nia guesses 70 cherries. The actual number is a multiple of 7. The sum of the digits of the number is 9. Who guessed correctly? (*Lesson 2.1 and 2.2*)

End-of-Year Review

Test Prep

Multiple Choice

Fill in the circle next to the correct answer.

1. The digit 9 in 89.4 stands for _____. (Lesson 7.2)

(A) 9 hundredths (B) 9 tenths
(C) 9 ones (D) 9 tens

2. Find $9.50 - 2.63$. (Lesson 8.2)

(A) 5.07 (B) 5.73
(C) 6.67 (D) 6.87

3. The product of 9 and _____ is 1,107. (Lesson 3.1)

(A) 123 (B) 1,098
(C) 1,116 (D) 9,963

4. The table shows the number of fruit and biscuits a group of students have. Some numbers in the table are missing. Use the information in the table to answer the question. (Lesson 4.1)

Name	Number of Fruit	Number of Biscuits	Total
Annabel	25	34	59
Mandy	12	26	38
Crystal		17	

The total number of fruit and biscuits is 120. How many fruit does Crystal have?

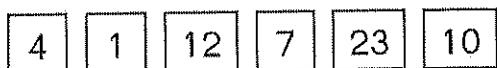
(A) 6 (B) 23
(C) 37 (D) 97

5. The stem-and-leaf plot shows the points scored by Jason in nine basketball games. (Lesson 5.3)

Jason's Scores	
Stem	Leaves
1	0 2 9
2	3 6 6 7
3	4
4	0

What is the outlier of the set of data?

- (A) 40 (B) 26
(C) 23 (D) 10
6. Peter draws one of these number cards from a bag. (Lesson 5.5)



What is the probability that he draws a number less than 10?

- (A) $\frac{1}{2}$ (B) $\frac{1}{3}$
(C) $\frac{1}{4}$ (D) $\frac{1}{6}$
7. Subtract $\frac{2}{4}$ from $\frac{7}{12}$. Express your answer in simplest form. (Lesson 6.2)
- (A) $\frac{1}{12}$ (B) $\frac{2}{15}$
(C) $\frac{2}{5}$ (D) $\frac{11}{15}$

8. $4\frac{3}{5} = \underline{\hspace{2cm}}$ (Lesson 6.3)

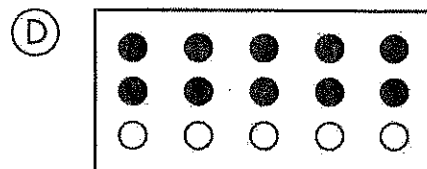
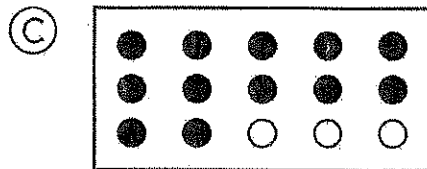
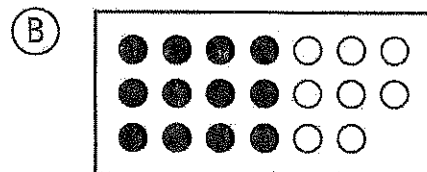
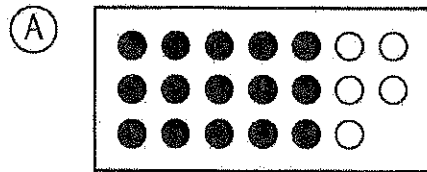
(A) $\frac{12}{5}$

(B) $\frac{20}{5}$

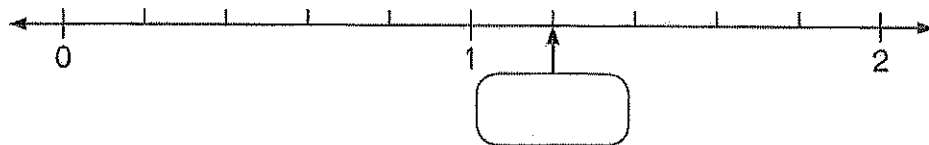
(C) $\frac{23}{5}$

(D) $\frac{43}{5}$

9. Which of the shaded parts represents $\frac{4}{5}$ of a set? (Lesson 6.7)



10.



The arrow is pointing at _____ (Lesson 7.1)

(A) 0

(B) 1.2

(C) 1.3

(D) 4

11. Ava's mass is 45.0 kilograms when rounded to 1 decimal place. What is her least possible mass? (Lesson 7.4)

- (A) 45.01 kilograms (B) 44.95 kilograms
(C) 44.99 kilograms (D) 44.55 kilograms

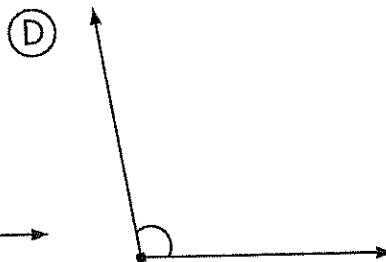
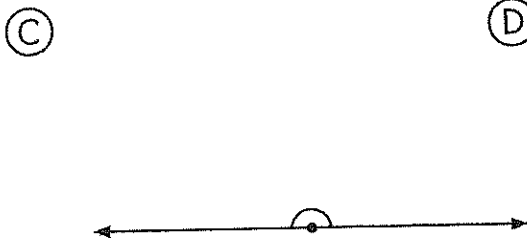
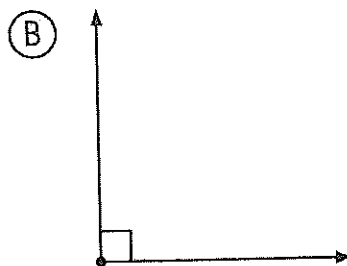
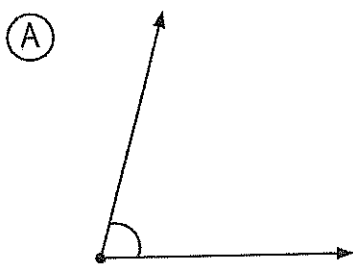
12. 0.55 is not equal to _____ . (Lesson 7.5)

- (A) $\frac{11}{20}$ (B) $\frac{55}{100}$
(C) $\frac{550}{1,000}$ (D) $\frac{55}{10}$

13. $4.6 - 0.46$ is equal to _____ . (Lesson 8.2)

- (A) 0 (B) 4.14
(C) 4.20 (D) 4.26

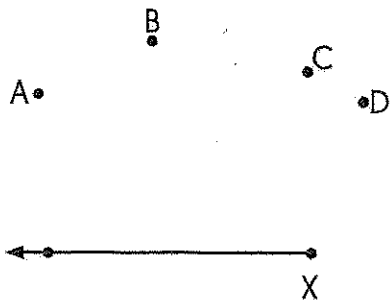
14. Which of these angles is an acute angle? (Lesson 9.1)



Name: _____

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15.



Sam needs to draw an angle of 125° from point X.
He must join point X to point _____ (Lesson 9.2)

(A)

A

(B)

B

(C)

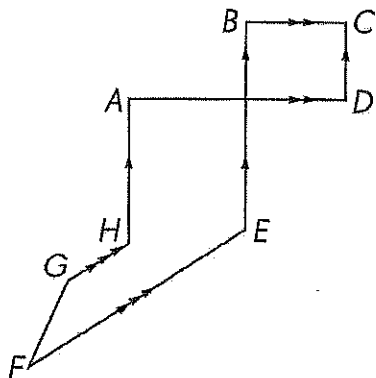
C

(D)

D

16.

Refer to the figure to answer Exercises 15 and 16.



Which line segment is perpendicular to \overline{AH} ? (Lesson 10.1)

(A)

HG

(B)

BE

(C)

FE

(D)

AD

17.

Which line segment is parallel to \overline{CD} ? (Lesson 10.2)

(A)

AD

(B)

GH

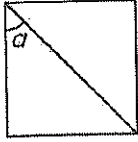
(C)

BE

(D)

FG

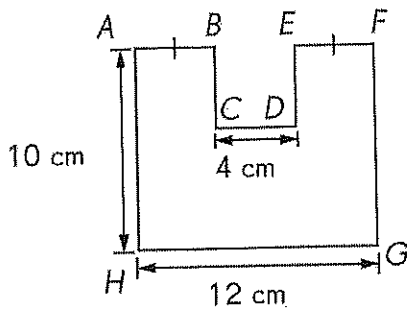
18. In the square below, find the measure of $\angle a$. (Lesson 11.2)



- (A) 30° (B) 45°
 (C) 60° (D) 90°
19. The perimeter of a rectangle is 24 centimeters.
 The length of one of its sides is 5 centimeters.
 What is the area? (Lesson 12.1)

- (A) 7 cm^2 (B) 14 cm^2
 (C) 35 cm^2 (D) 49 cm^2

20. All line segments on the figure meet at right angles.
 Find EF . (Lesson 12.1)

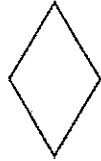


- (A) 4 cm (B) 6 cm
 (C) 8 cm (D) 10 cm

Name: _____

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21. Which pair of figures are symmetric? (Lesson 13.1)



A



B



C



D

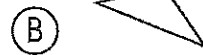
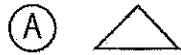
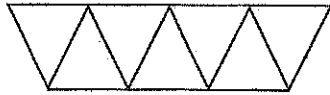
(A) A and B

(B) B and C

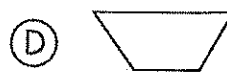
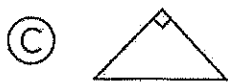
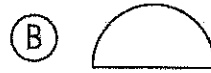
(C) C and D

(D) D and A

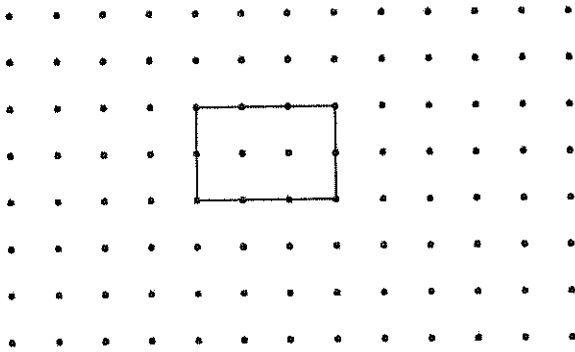
22. What is the repeated shape used in the tessellation? (Lesson 14.1)



23. Which of these shapes has rotational symmetry? (Lesson 13.2)

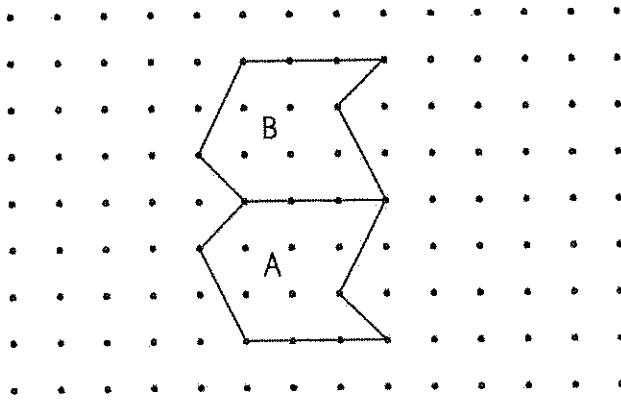


24. This shape can be tessellated by _____. (Lesson 14.2)



- (A) sliding
- (B) rotation
- (C) flipping
- (D) All of the above

25.



From position A to B, the unit shape has been _____.

- (A) slid
- (B) rotated
- (C) flipped
- (D) none of the above

Name: _____

Date: _____

Short Answer

Read each question carefully. Write your answers in the space given.
Give your answers in the correct units.

26. I am a number between 30 and 50. I am a multiple of 8.
My greatest common factor with 25 is 5.
What number am I? (*Lessons 2.2 and 2.3*)

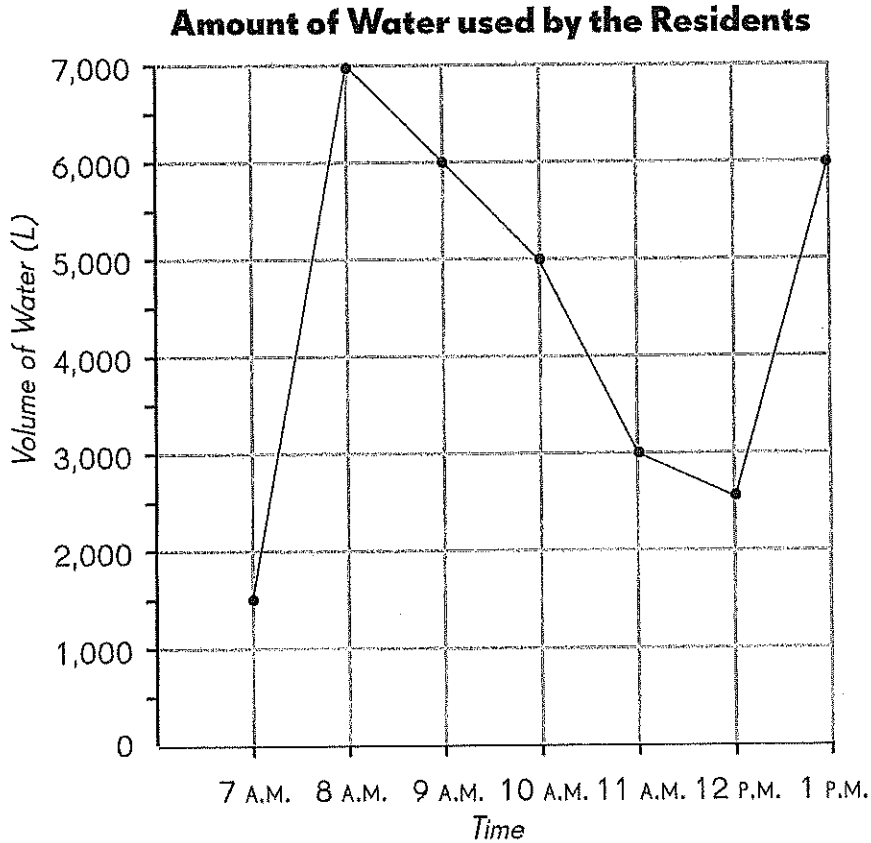
27. The table shows the number of marbles Anthony and Michelle have.
Complete the table and answer the questions. (*Lesson 4.1*)

	Red Marbles	Blue Marbles	Total
Anthony	18	26	
Michelle	37		61

- a. What was the total number of red marbles?

- b. What fraction of the total number of marbles were blue?

28. The graph shows the amount of water used by the residents of an apartment block over a morning. (Lesson 4.3)



- a. At which two times was the same amount of water used?
- b. At what time was the amount of water used twice that used at noon?
29. A bag has 5 pink balls, 8 yellow balls, and 4 blue balls. What is the probability of drawing a pink ball from the bag? (Lesson 5.5)
30. What is $\frac{7}{12} - \frac{2}{6}$? Express your answer in simplest form. (Lesson 6.2)

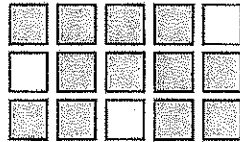
Name: _____

Date: _____

31. Express $\frac{30}{7}$ as a mixed number. (Lesson 6.5)

32. Find the difference between $\frac{5}{8}$ and 3. (Lesson 6.6)

33. How many grey squares must be replaced by white squares so that $\frac{2}{3}$ of the total number of squares are grey? (Lesson 6.7)



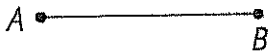
34. What is the number in the box? (Lesson 7.2)

$$6.34 = 6 + 0.3 + \square$$

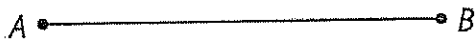
35. Li Li is 1.85 meters tall. Round her height to the nearest tenth of a meter. (Lesson 7.4)

36. Express $5\frac{6}{25}$ as a decimal. (Lesson 7.5)

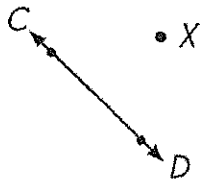
37. Draw and label a line segment BC such that the measure of angle ABC is 167° . Line segment AB is given. (Lesson 9.2)



38. Draw a line segment perpendicular to AB through point O . (Lesson 10.1)

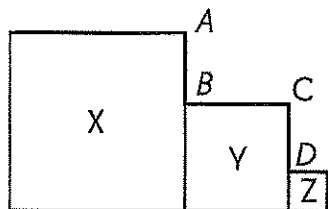


39. Draw a line parallel to \overleftrightarrow{CD} passing through point X . (Lesson 10.2)



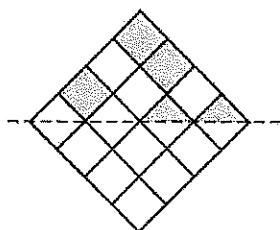
40. AB is a vertical line segment and BC is a horizontal line segment. Find the measure of $\angle ABC$. (Lesson 10.3)


41. Look at the figure below to answer the question. (Lesson 12.3)

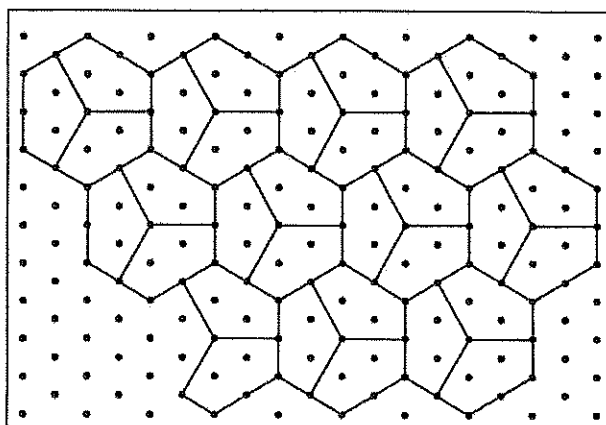


X, Y, and Z are squares. The length of each side of X is 5 centimeters and the length of each side of Y is 3 centimeters. $AB = CD$. Find the total length of the thick lines in the figure.

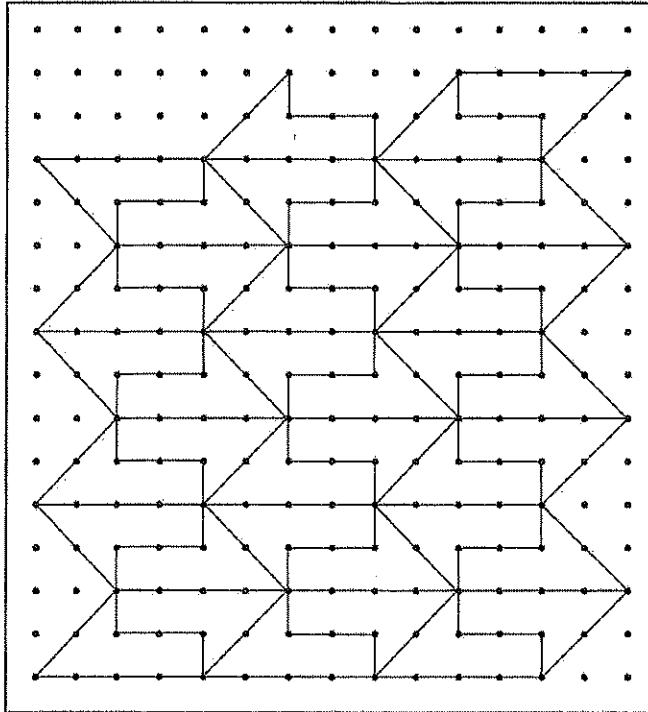
42. Shade some squares and half-squares to make a symmetric pattern in the figure. (Lesson 13.3)



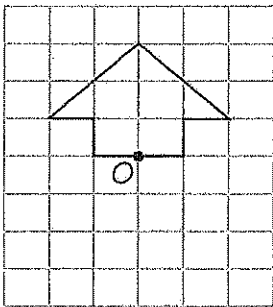
43. In the tessellation below, the unit shape is . Extend the tessellation in the space provided by adding four more unit shapes. (Lesson 14.2)



44. Complete the tessellation by adding three more unit shapes. (Lesson 14.2)



45. Complete the figure so that it has rotational symmetry about point O . (Lesson 13.3)



46. a. Does the word

N	O
---	---

 have rotational symmetry? (Lesson 13.3)

- b. Fill in the box with a letter so that

N	O	
---	---	--

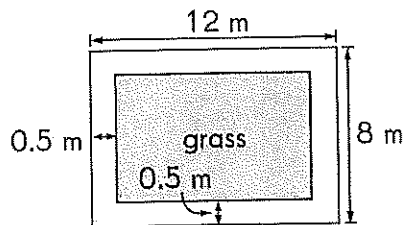
 will have rotational symmetry. (Lesson 13.3)

Extended Response**Solve. Show your work.**

- 47.** Jane used $\frac{1}{4}$ of the flour to make biscuits.
She used $\frac{1}{2}$ of the flour to bake a cake.
What fraction of the flour was left?
- 48.** Mr. Lim has some savings. If he gives \$40 to one brother, he will have \$6,145 left. But he decides to give all his savings to his 5 brothers equally. How much will each brother get?
- 49.** Rita bought fabric and ribbon from a store. The ribbon cost \$18.50. Rita paid the cashier \$50.00 and received change of \$5.25. How much did the fabric cost?

50. The area of a rectangle is 98 square centimeters, and its width is 7 centimeters. Find the length.

51. Richard planted some grass on a rectangular plot of land which measures 12 meters by 8 meters. He left a margin of 0.5 meters around the grass, as shown in the figure below. Find the area of land covered by grass. (Lesson 12.4)



Summer Math Packet for Students Entering 6th Grade**Mid-Year Review****Test Prep****Multiple Choice**

Fill in the circle next to the correct answer.

1. Which of the following is 3,450,026 in word form? (*Lesson 1.1*)
 - (A) Three million, four hundred fifty thousand, twenty-six
 - (B) Three million, four hundred thousand fifty, twenty-six
 - (C) Three million, fifty thousand four hundred, twenty-six
 - (D) Three million, forty-five thousand, twenty-six

2. Which number is the greatest? (*Lesson 1.3*)
 - (A) 15,265
 - (B) 93,216
 - (C) 320,182
 - (D) 320,128

3. Which number when rounded to the nearest thousand is 23,000? (*Lesson 1.4*)
 - (A) 22,097
 - (B) 22,499
 - (C) 23,400
 - (D) 23,501

4. Simplify $20 + 10 \times 19 - 7$. (*Lesson 2.6*)
 - (A) 140
 - (B) 203
 - (C) 360
 - (D) 563

5. Which is 1,000 less than the product of 3,021 and 79? (Lesson 2.3)
- (A) 2,100 (B) 4,100
(C) 237,659 (D) 239,659
6. Which is the difference between the value of the digit 6 in 2,300,628 and in 846,150? (Lesson 1.2)
- (A) 600 (B) 5,400
(C) 5,522 (D) 6,000
7. Which is the remainder when 4,885 is divided by 21? (Lesson 2.5)
- (A) 12 (B) 13
(C) 14 (D) 15
8. Express $\frac{8}{11} \div 4$ in simplest form. (Lesson 4.6)
- (A) $\frac{2}{11}$ (B) $\frac{8}{44}$
(C) $\frac{1}{11}$ (D) $\frac{4}{11}$
9. Find the difference: $\frac{3}{4} - \frac{3}{8}$. (Lesson 3.2)
- (A) $\frac{5}{8}$ (B) $\frac{3}{8}$
(C) $\frac{1}{2}$ (D) $\frac{1}{4}$
10. Find the product: $\frac{3}{4} \times \frac{8}{12}$. (Lesson 4.1)
- (A) $\frac{1}{2}$ (B) $\frac{2}{3}$
(C) $\frac{5}{12}$ (D) $\frac{11}{16}$

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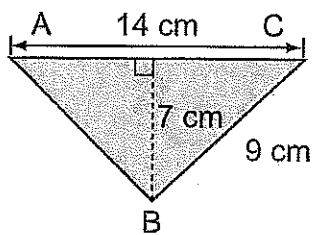
11. Estimate the sum of $\frac{6}{7}$ and $\frac{3}{5}$. (Lesson 3.1)

(A) 0
 (B) $\frac{1}{2}$
 (C) $1\frac{1}{2}$
 (D) 1

12. What is the difference between $3\frac{1}{2}$ and $1\frac{1}{4}$? (Lesson 3.6)

(A) $2\frac{1}{4}$
 (B) $3\frac{1}{4}$
 (C) $4\frac{3}{4}$
 (D) $4\frac{1}{2}$

13. Find the area of triangle ABC . (Lesson 6.2)



(A) 126 cm^2
 (B) 98 cm^2
 (C) 63 cm^2
 (D) 49 cm^2

14. Simplify $4x + 6 - 2x - 1$. (Lesson 5.2)

(A) $6x + 7$
 (B) $4x + 3$
 (C) $8x + 6$
 (D) $2x + 5$

15. For what value of y will the inequality $3y + 4 < 8$ be true? (Lesson 5.3)

(A) $y = 1$
 (B) $y = 2$
 (C) $y = 3$
 (D) $y = 4$

16. Glass A contains 236 milliliters of milk. Glass B contains 420 milliliters of milk. What is the ratio of the amount of milk in Glass A to that in Glass B? (Lesson 7.3)

(A) 89 : 135
 (B) 119 : 165
 (C) 479 : 660
 (D) 59 : 105

Short Answer

Read the questions carefully. Write your answers in the space provided. Show your work.

17. What is the missing number in the box? (Lesson 1.2)

$$87,412 = 80,000 + \boxed{} + 400 + 10 + 2$$


18. Order the numbers from greatest to least. (Lesson 1.3)

35,928 164,239 35,982 916,236

19. Rounding to the nearest thousand, what is the least number that rounds to 32,000? (Lesson 1.4)

20. Find the product of 238 and 4,000. (Lesson 2.2)

21. There are 215 Grade 5 students in Cherrywood school. Each student spends \$17 on a dictionary. How much in all do the students spend on the dictionary? (Lesson 2.7)

22.  Mr. Hull is buying computer equipment for his company. The equipment costs \$45,900. He pays \$5,300 for the first payment. He then pays the rest of the amount in equal payments for 14 months. Find the amount he has to pay each month. (Lesson 2.7)

Name: _____

Date: _____

23. Simplify $(2 + 4) \times 7 - 6 + 11$. (Lesson 2.6)

24. Express $38 \div 6$ as a fraction in simplest form. Then rewrite the fraction as a mixed number. (Lesson 3.3)

25. Shaun has $24\frac{1}{2}$ ounces of beads. He has $3\frac{3}{8}$ ounces of beads less than Tony. Find the weight of Tony's beads. (Lesson 3.7)

26. Express $24\frac{1}{4} - 15\frac{1}{2}$ as a decimal. (Lessons 3.3 and 3.6)

27. Lita jogged $7\frac{3}{10}$ kilometers on Friday. She jogged $1\frac{3}{4}$ kilometers more on Saturday. How many kilometers did she jog on both days? Give your answer as a decimal. (Lesson 3.7)

28. Multiply $\frac{70}{6}$ by $\frac{18}{4}$. Express the product as a mixed number in simplest form. (Lesson 4.3)

29. Jamal runs $1\frac{2}{5}$ miles a day to train for a race.

a. If he runs the same distance for 3 days a week, what is the distance he runs in one week?

b. If he keeps to this training regime for 8 weeks, what is the total distance he will run in 8 weeks? (Lesson 4.5)

a. _____

b. _____

Name: _____

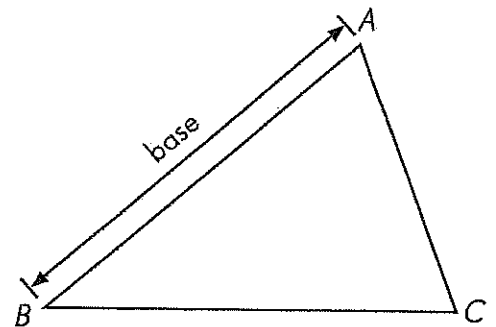
Date: _____

30. A ball of string $\frac{9}{10}$ meter long is cut into 3 pieces of the same length.
Find the length of each piece. (Lesson 4.6)

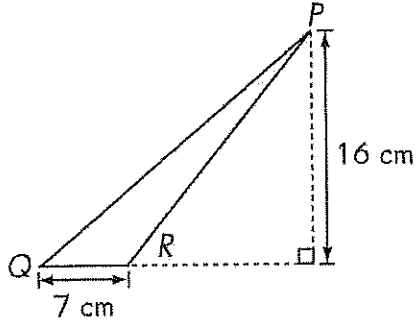
31. 3 batteries cost $\$5r$ and 8 folders cost $\$2r$. Jason bought 6 batteries and 4 folders. How much does he pay?
Give your answer in terms of r . (Lesson 5.4)


32. Solve this equation. (Lesson 5.3)
 $4a - 8 = a + 4$

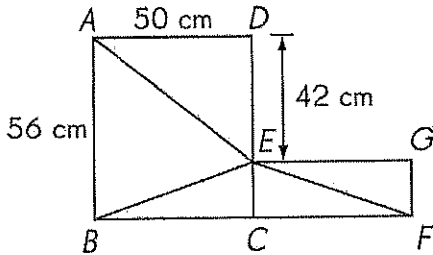
33. The base of the triangle ABC is as given.
Label its height. (Lesson 6.1)




34. Find the area of triangle PQR . (Lesson 6.2)




35.  $ABCD$ and $ECFG$ are rectangles. $BC = CF$. What is the total area of the shaded parts of the figure? (Lesson 6.2)



36.  The ratio of the masses of flour in two bags is $5 : 7$. The heavier bag contains 1,120 grams of flour. What is the total mass of flour in both bags? (Lesson 7.3)

37. Rachel, Sally, and Fabio share a pie in the ratio $1 : 2 : 4$. What fraction of the pie does Sally get? (Lesson 7.6)

38.  The lengths of three sides of a triangle are in the ratio 3 : 4 : 5. The perimeter of the triangle is 156 centimeters. What is the difference in length between the longest and shortest sides?
(Lesson 7.6)


39.  Look for a pattern in this set of figures. (Lesson 7.6)



Figure 1

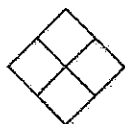


Figure 2

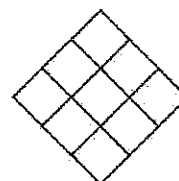


Figure 3

?


Figure 4

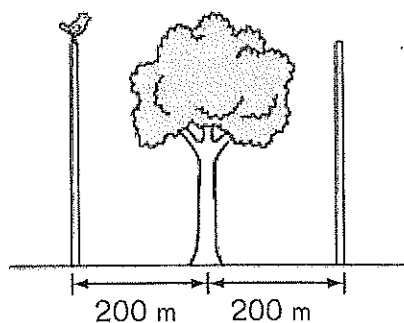
Figure	1	2	3	4		?
Number of Unit Squares	1	4	9	?		169


- a. How many unit squares are in Figure 4? _____
- b. Which figure in this pattern will have 169 small squares? _____

Extended Response

Solve. Show your work.

40.  Poles are placed an equal distance apart along a 6-kilometer road. There is a tree in between every two poles. The figure shows the distance between a tree and two poles. Poles are placed at the start and end of the road. How many poles are there? (Lesson 2.4)



41.  A whole number when divided by 4 gives a remainder of 3. The same whole number when divided by 6 gives a remainder of 1. The number is between 70 and 85. What is the number? (Lesson 2.5)

Name: _____

Date: _____

42.



Sarah earns \$525 more than Andrew each month. They each spend \$1,250 a month and save the rest. Sarah does not have any savings at first. After 11 months, she has \$8,250 in savings. How much does Andrew earn in a year? (Lesson 2.7)

43.

Ivan caught a total of $7\frac{2}{5}$ pounds of fish one day. Of the fish caught, $4\frac{5}{8}$ pounds were sea bass and the rest were mackerel. He gave away $1\frac{7}{8}$ pounds of mackerel. How many pounds of mackerel did he have left? Give your answer as a decimal. (Lesson 3.7)

- 44.** There were $2\frac{4}{5}$ quarts of milk in Container A and some milk in Container B. Lisa poured $1\frac{2}{5}$ quarts of milk each into Container A and Container B. In the end, the total volume of milk in the two containers was 10 quarts. How many quarts of milk were in Container B at first? Give your answer as a decimal. (Lesson 3.7)

- 45.** Tyrone read a book for his school project. On the first day, he read 40 pages. On the second day, he read $\frac{1}{4}$ of the remaining pages. After the second day, he still had to read $\frac{1}{2}$ of the total number of pages to complete the book. How many pages are in the book? (Lesson 4.2)

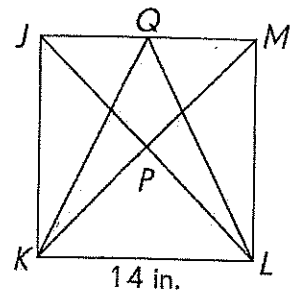
Name: _____

Date: _____

- 46.** A dealership has $9y$ cars, $12y$ trucks and 18 vans. (Lesson 5.4)
- a.** $4y$ cars, $3y$ trucks and 15 vans are sold. Find the total number of vehicles remaining in terms of y .

- b.** If the value of y is 7, are there more trucks or more cars and vans at first?

- 47.** The side of square $JKLM$ is 14 inches. $KP = MP = JP = LP$. Find the total area of the shaded parts. (Lesson 6.2)



48.



Freddie has 2 times as many comic books as David. The ratio of the number of comic books David has to the number of comic books Gary has is 5 : 3. Freddie has 110 comic books. How many comic books do David and Gary have in total? (Lesson 7.6)

49.



The ratio of the volume of water in Container A to the volume of water in Container B to the volume of water in Container C is 2 : 3 : 8. Container B contains 900 milliliters of water. (Lesson 7.6)

a. What is the volume of water in Container C?

b. Find the total volume of water in the three containers.

End-of-Year Review

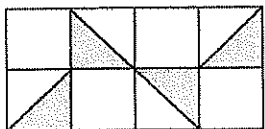
Test Prep

Multiple Choice

Shade the circle next to the correct answer.

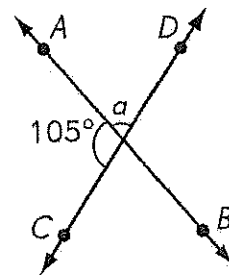
1. In 130.426, the digit 2 is in the _____ place. (Lesson 8.1)
- | | |
|--------------------------------------|---------------------------------------|
| <input type="radio"/> (A) tens | <input type="radio"/> (B) tenths |
| <input type="radio"/> (C) hundredths | <input type="radio"/> (D) thousandths |
2. Use front-end estimation with adjustment to estimate $6,189 - 3,674$. (Lesson 1.4)
- | | |
|---------------------------------|---------------------------------|
| <input type="radio"/> (A) 1,000 | <input type="radio"/> (B) 2,000 |
| <input type="radio"/> (C) 3,000 | <input type="radio"/> (D) 4,000 |
3. Simplify $48 \div 8 + 13 \times 3$. (Lesson 2.6)
- | | |
|------------------------------|------------------------------|
| <input type="radio"/> (A) 45 | <input type="radio"/> (B) 54 |
| <input type="radio"/> (C) 57 | <input type="radio"/> (D) 75 |
4. Express $10\frac{1}{4} - 4\frac{1}{2}$ as a decimal. (Lesson 3.3)
- | | |
|--------------------------------|--------------------------------|
| <input type="radio"/> (A) 6.25 | <input type="radio"/> (B) 5.75 |
| <input type="radio"/> (C) 5.43 | <input type="radio"/> (D) 5.34 |
5. Express 9.062 as a mixed number in simplest form. (Lesson 8.3)
- | | |
|--|---|
| <input type="radio"/> (A) $9\frac{62}{100}$ | <input type="radio"/> (B) $9\frac{31}{50}$ |
| <input type="radio"/> (C) $9\frac{62}{1000}$ | <input type="radio"/> (D) $9\frac{31}{500}$ |
6. What is the product of 96 and 13? (Lesson 2.3)
- | | |
|---------------------------------|---------------------------------|
| <input type="radio"/> (A) 900 | <input type="radio"/> (B) 960 |
| <input type="radio"/> (C) 1,170 | <input type="radio"/> (D) 1,248 |

7. Divide 84 by 400. (Lesson 9.4)
- (A) 0.21 (B) 0.84
(C) 2.1 (D) 8.4
8. Simplify $16p + 5 - 3p - 2$. (Lesson 5.2)
- (A) $19p + 7$ (B) $19p - 3$
(C) $13p + 3$ (D) $13p - 3$
9. For what value of y will the inequality $4y - 8 > 10$ be true? (Lesson 5.3)
- (A) 2 (B) 3
(C) 4 (D) 5
10. What percent of the figure is shaded? (Lesson 10.1)



- (A) 25% (B) 35%
(C) 40% (D) 50%
11. The price of a cell phone is \$500. Kathleen pays 8% sales tax on the price of the cell phone. How much sales tax does she pay? (Lesson 10.4)
- (A) \$400 (B) \$50
(C) \$40 (D) \$8
12. \overleftrightarrow{AB} and \overleftrightarrow{CD} are lines. Find the measure of $\angle a$. (Lesson 12.1)

- (A) 180°
(B) 105°
(C) 75°
(D) 57°



13. The sides of triangle ABC are in whole inches. $AB = 5$ inches and $BC = 11$ inches. Which of these is a possible length for AC ?

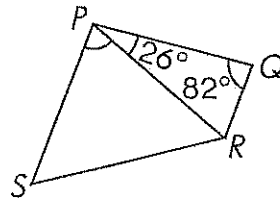
(Lesson 13.4)

- (A) 3 inches (B) 6 inches
(C) 12 inches (D) 16 inches

14. In the trapezoid $PQRS$, $\overline{PS} \parallel \overline{QR}$. Find the measure of $\angle SPR$.

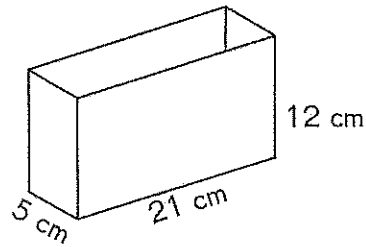
(Lesson 13.5)

- (A) 98°
(B) 72°
(C) 52°
(D) 26°

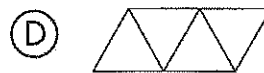
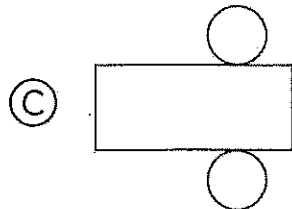
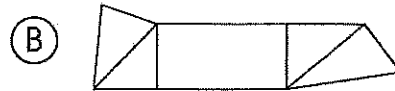
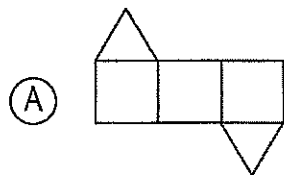


15. How many 1-centimeter cubes can be put into the box? (Lesson 15.5)

- (A) 38
(B) 1,200
(C) 1,260
(D) 1,620



16. Which of these nets can form a triangular pyramid? (Lesson 14.1)



Short Answer

Read the questions carefully. Write your answers in the spaces provided.
Show your work.

17. The ratio of the volume of water in bucket A to the volume of water in bucket B is 3 : 5. The total volume of water in the two buckets is 56 liters. What is the volume of water in bucket B? (Lesson 7.3)

18. Write 12 ones and 3 tenths 2 hundredths 5 thousandths in expanded form. (Lesson 8.1)

19. What is the missing number in the equation? (Lesson 9.4)

$$9.42 = 9,420 \div \square$$

20. Order the decimals from least to greatest. (Lesson 8.2)
11.05, 11.00, 11.10, 11.009

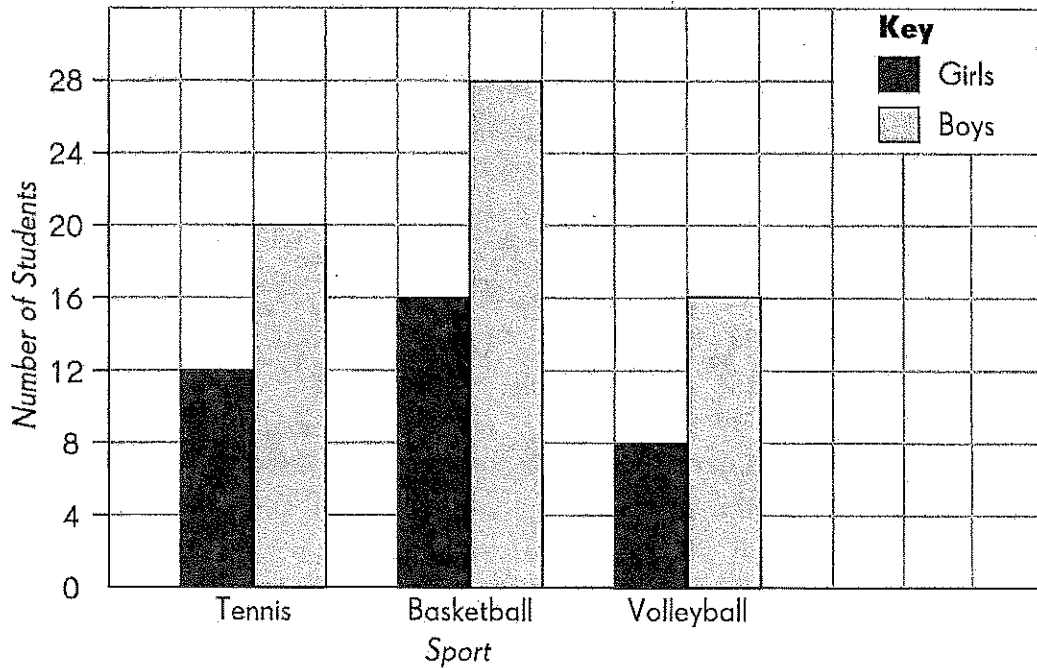
21. $\frac{3}{8}$ of the regular price of a digital watch is \$21. The price of the digital watch after discount is \$21. Find the dollar amount of the discount. (Lesson 10.4)

Name: _____

Date: _____

Use the data in the bar graph to answer questions 22 and 23.

Favorite Sports of Students

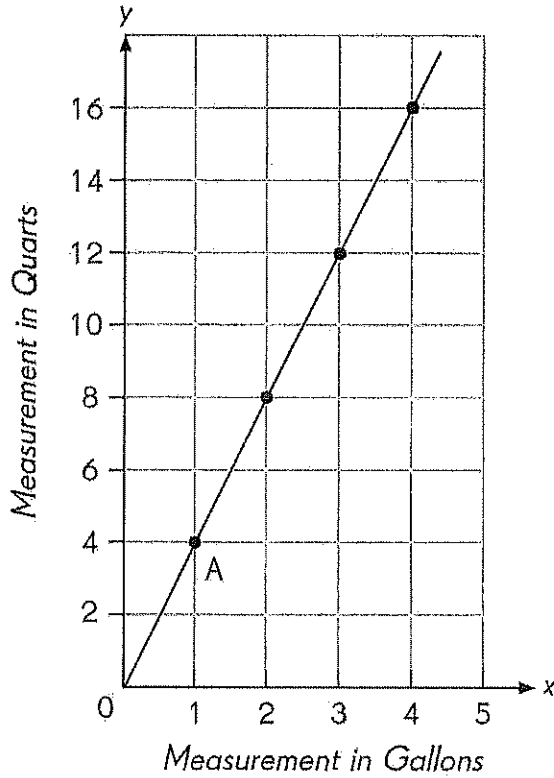


22. For which sport is the difference between the number of boys and girls the greatest? (*Lesson 11.1*)

23. How many more boys than girls prefer tennis? (*Lesson 11.1*)

Use the data in the graph to answer questions 24 and 25.

Conversion Between Gallons and Quarts



24. Mrs. Richards buys 8 quarts of milk in 4 days. How many gallons of milk does she buy? (Lesson 11.2)

25. What is the equation of the graph? (Lesson 11.2)

26. Mrs. Mani has 1 orange, 1 apple, 1 peach and 1 apricot. She has 3 different flavored yogurt bars. She packs one fruit and one yogurt bar into a lunch box. Find the number of combinations she can pack in one box. (Lesson 11.3)

Name: _____

Date: _____

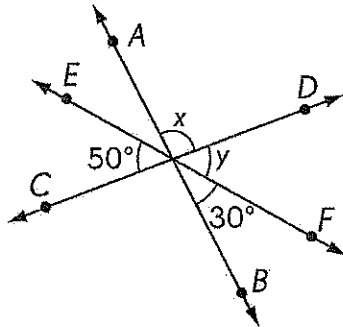
27. A box contains 6 red pens, 4 blue pens, 8 green pens, and some black pens. Leslie picks a pen and returns it to the box each time. The outcomes are recorded in the table.

Number of Times a Red Pen is Picked	Number of Times a Blue Pen is Picked	Number of Times a Green Pen is Picked	Number of Times a Black Pen is Picked
8	5	14	3

- a. What is the experimental probability of drawing a green pen?
(Lesson 11.4)

- b. If the theoretical probability of drawing a black pen is $\frac{1}{10}$, how many black pens are in the box? (Lesson 11.4)

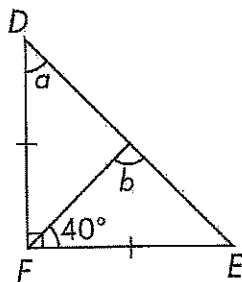
28. \overleftrightarrow{AB} , \overleftrightarrow{CD} and \overleftrightarrow{EF} are lines. Find the measures of $\angle x$ and $\angle y$.
(Lessons 12.1 and 12.3)



$m\angle x =$ _____

$m\angle y =$ _____

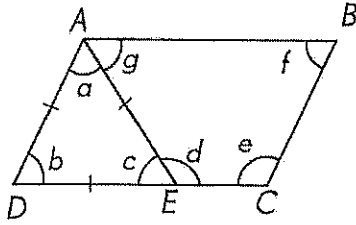
29. In triangle DEF , $DF = EF$. Find the measures of $\angle a$ and $\angle b$.
(Lessons 13.2 and 13.3)



$m\angle a =$ _____

$m\angle b =$ _____

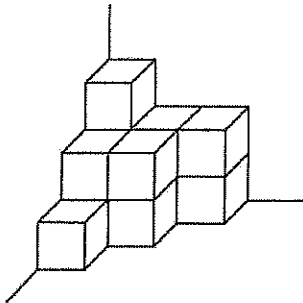
- 30.** $ABCD$ is a parallelogram and ADE is an equilateral triangle. Identify all the angles that have the same measure as $\angle f$. (Lessons 13.3 and 13.5)



- 31.** Brian has \$50. He buys 10 similar books and has x dollars left. What is the cost of each book? (Lesson 5.4)

- 32.** A solid figure has 2 flat surfaces, 1 curved surface, no edges and no vertices. Name this solid figure. (Lesson 14.2)

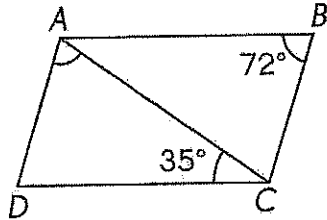
- 33.** How many unit cubes are used to build the solid? (Lesson 15.1)



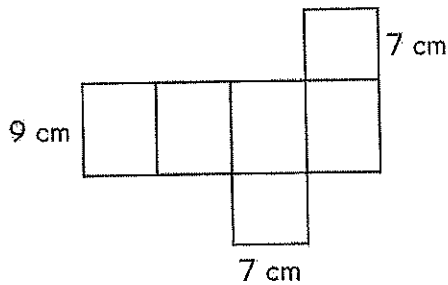
Name: _____

Date: _____

34. $ABCD$ is a parallelogram. Find the measure of $\angle DAC$. (Lesson 13.5)

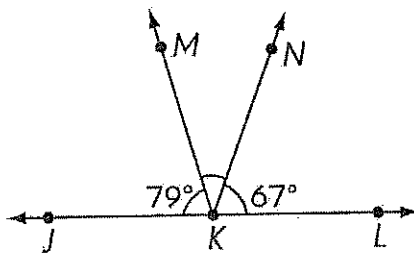


35. The net of a square prism is as given. Use the net to find the surface area of the prism. (Lesson 15.3)



36. Express $3\frac{1}{5} + 2\frac{1}{20}$ as a decimal. (Lesson 3.5)

37. \overleftrightarrow{JL} is a line. Find the measure of $\angle MKN$. (Lesson 12.1)



Extended Response

Solve. Show your work.

38. There are 450 seats in a theater. 48% of the seats are occupied. How many seats are not occupied?

39. The area of a plot of land is 2,496 square meters. A small part of the land is fenced. The ratio of the area of the plot of land to the area that is not fenced is 48 : 31. What is the area of the land that is not fenced?

Name: _____

Date: _____

- 40.** Harry buys a sofa set that costs \$2,000. He pays for it by installments at an interest rate of 5% per year.
What is the total amount he has to pay at the end of one year?

- 41.** Mrs. Jacobs buys 20 kilograms of rice at \$0.84 per kilogram.
She buys 700 grams of shrimp at \$1.02 per 100 grams.
How much does she spend in total?

42. A fish tank measures 40 centimeters by 25 centimeters by 24 centimeters. It is filled with water from a tap. The fish tank is $\frac{5}{8}$ full in 6 minutes. Find the volume of water that flows from the tap each minute.

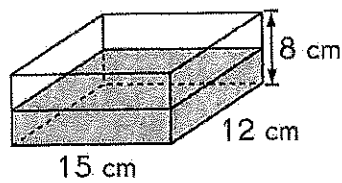
43. Mrs. Jackson has \$90. She spends $\frac{1}{4}$ of her money on food, $\frac{1}{2}$ of the remainder on clothes and saves the rest. How much does she save?

Name: _____

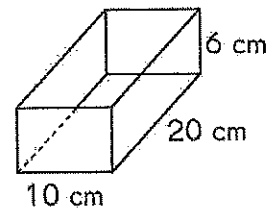
Date: _____

44. Team A has 42 members. Team B has 18 more members than team A. What percent of the members from team B must be transferred to team A so that team A has as many members as team B?

45. An equal amount of water is poured into two empty tanks, *P* and *Q*. Tank *P* is then $\frac{1}{2}$ -filled. What fraction of tank *Q* is filled with water?



P



Q

- 46.** There is some water in a tank. Water is then poured into the tank until the volume of water is 8 times as much as the initial volume of water in the tank. When another 16.75 liters of water is added, the total volume of water in the tank becomes 20.35 liters. How much water is in the tank at first? Give your answer in liters.

AS YOU READ WITH YOUR CHILD TONIGHT, ASK THEM...

- To blend beginning sound and end of words when sounds are given to them. Ex: /c/- /at/ is cat.
- To say the sounds of all the letters in a word.
- Challenge them to sound out short words, saying the beginning middle and end sounds and blending them.
- To segment a word in a book into all its sounds and letters. Ex: bat would be /b//a//t/.
- To come up with their own questions to ask you about specific events in the story.
- To retell the events of the story in order, including key details like setting, characters, problem, and solution.
- To describe the character's traits.
- To compare characters in the story.
- To compare characters to characters in other stories.
- To compare and contrast two books.
- To compare and contrast the events of two characters from two different stories.
- How the characters feel and why.
- To describe the role of the author and illustrator, and find their names on the cover.
- To sound out words on a page and answer questions about what they read.

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