

Name: _____

Curly Cirrus Clouds

By Cindy Grigg

There are different kinds of clouds. Clouds can be big. Clouds can be small. Sometimes clouds cover the whole sky with a blanket of gray. Some clouds look like small, white curls high up in the blue sky. They have funny names! Those small clouds that look like curls of hair are called cirrus (sear-us) clouds. When you see a cloud, you are seeing water in the air. Most clouds are made of tiny drops of water. Cirrus clouds are made of ice. They form very high above Earth where it is very cold. Some people call them "mares' tails." These people think cirrus clouds look like the flowing hair of a horse's tail. Clouds can help you know what the weather might do. You usually see cirrus clouds when the weather is good. Seeing a few of these curly cirrus clouds means nothing. But if you see a lot of cirrus clouds, it means that a storm is coming in a day or so. Keep your eye on the sky!



Curly Cirrus Clouds

Questions

- _____ 1. What does the word "mare" mean?
- A. tail
 - B. cloud
 - C. ice
 - D. horse
- _____ 2. What is the story mainly about?
- A. Cirrus clouds are made of ice.
 - B. There are different kinds of clouds, and they can tell you what the weather might do.
 - C. Clouds can be big or small.
- _____ 3. What causes cirrus clouds to be made of ice instead of water?
- A. They form very high above Earth where it is very cold.
 - B. A few of these curly cirrus clouds mean nothing.
 - C. They mean that a storm is coming in a day or so.
4. Why should we learn about different kinds of clouds?
- _____
- _____
- _____ 5. Cirrus clouds are found _____.
- A. high above Earth's land
 - B. low to the ground, near Earth's land
- _____ 6. Clouds are made of _____.
- A. cold air
 - B. ice or water
 - C. whipped cream

Name: _____

Draw 3 pictures in the correct order. Use each of the clues so you will know what to draw.



Draw 1 of these 3 pictures.
The picture IS in the correct spot.



Draw 1 of these 3 pictures.
The picture IS in the correct spot.

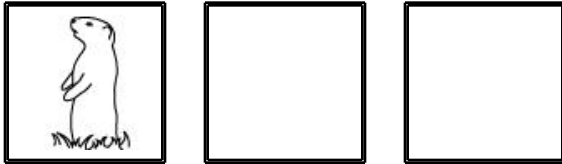


Draw 1 of these 3 pictures.
The picture is NOT in the correct spot.

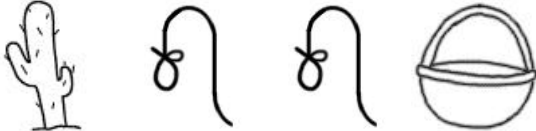


Draw 2 of these 3 pictures.
The pictures to use are in the correct spot.

Draw the 3 pictures in the correct order:



Draw 4 pictures in the correct order. Use each of the clues so you will know what to draw.



Draw 1 of these 4 pictures.
The picture is NOT in the correct spot.



Draw 1 of these 4 pictures.
The picture IS in the correct spot.



Draw 3 of these 4 pictures.
The pictures to use are in the correct spot.

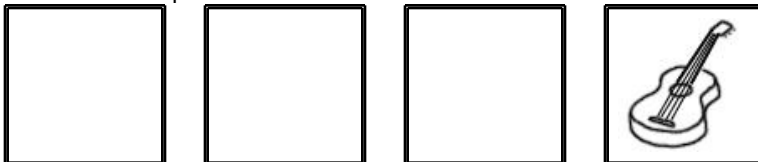


Draw 1 of these 4 pictures.
The picture is NOT in the correct spot.

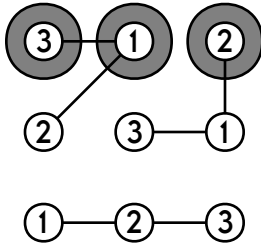
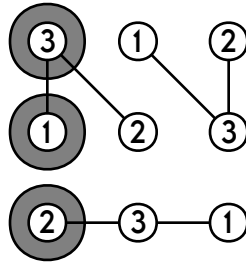
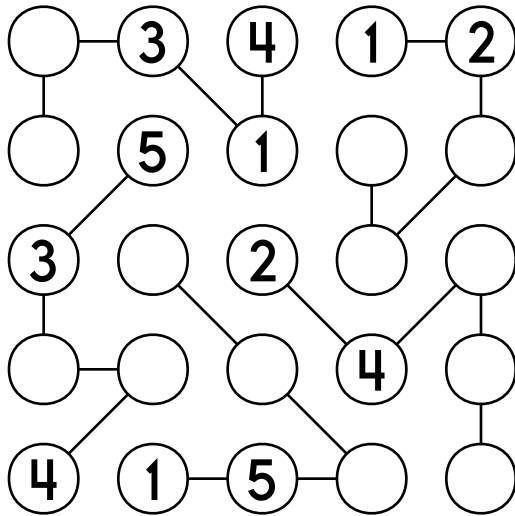
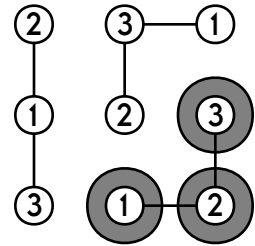


Draw 1 of these 4 pictures.
The picture is NOT in the correct spot.

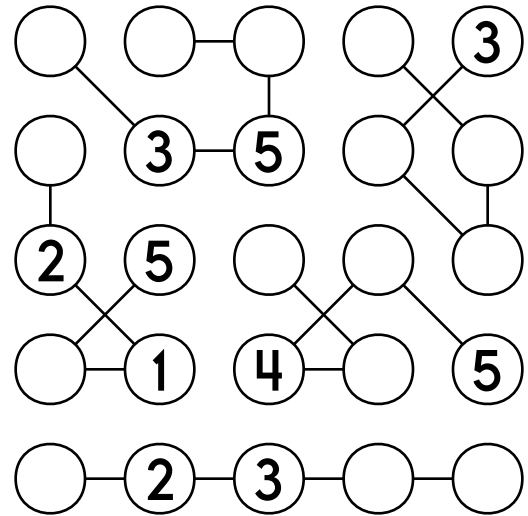
Draw the 4 pictures in the correct order:



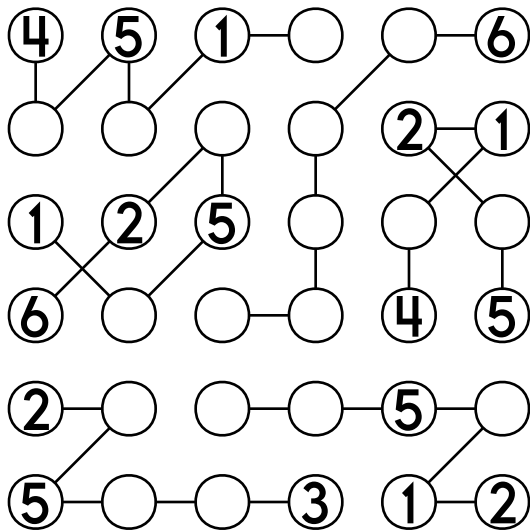
Name: _____

Each column must contain
different numbers.Each row must contain
different numbers.Each connected group must
contain different numbers.

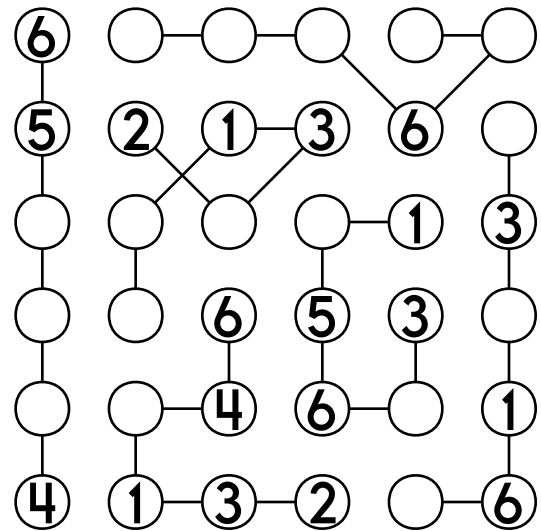
Use the numbers 1 through 5.



Use the numbers 1 through 5.



Use the numbers 1 through 6.



Use the numbers 1 through 6.

Name: _____

Each row, column, and box must have the numbers 1 through 6.

				5	
			2	3	
	2				
	3	5			
	4	3			
					1

Each row, column, and box must have the numbers 1 through 6.

			6	1	
					4
4	6				
		6			3
	5	1			

$$9 \text{ kg} = \text{_____} \text{ g}$$

$$5 \times 10 =$$

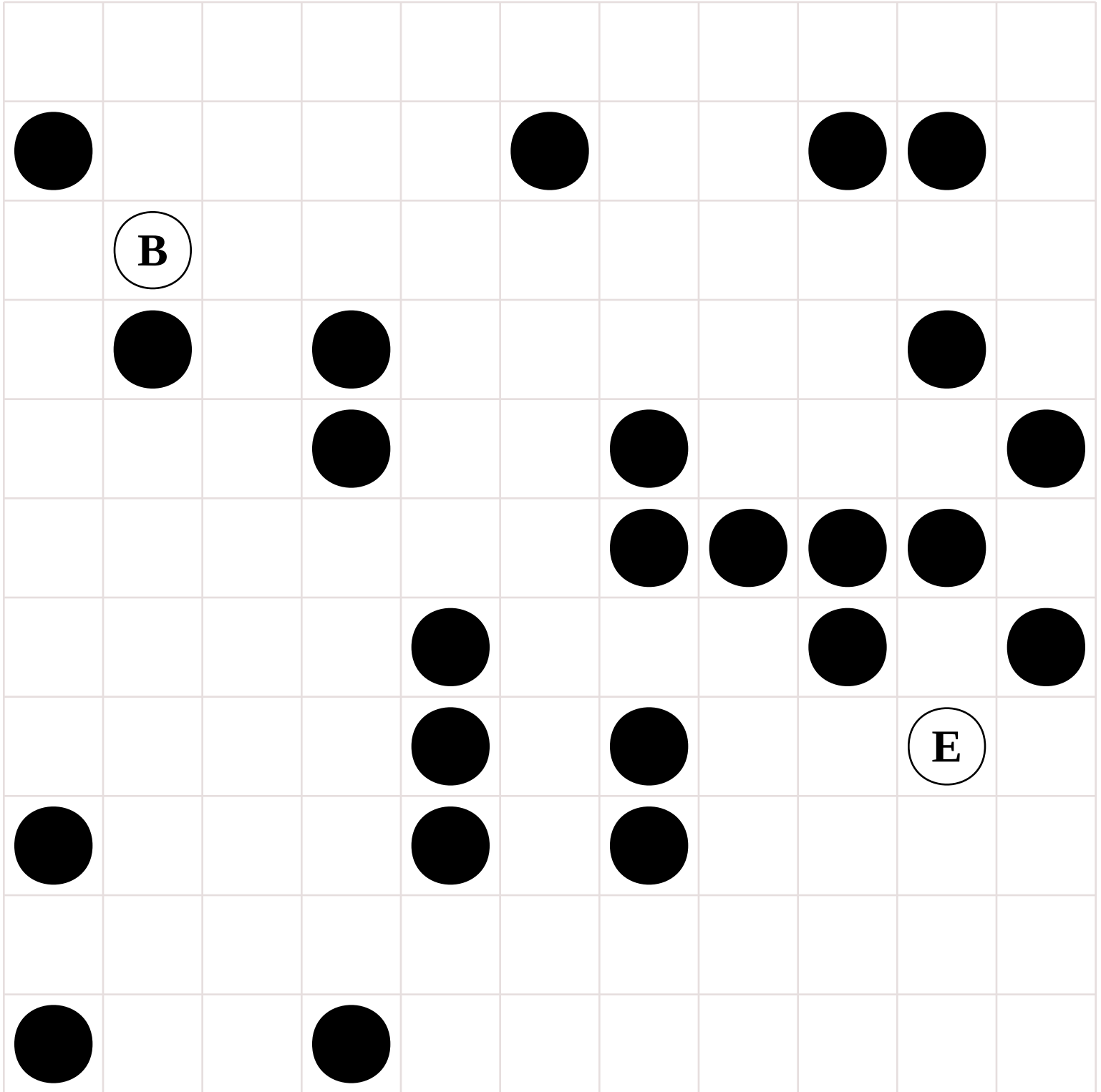


Name _____



Date _____

Start on the **B** circle. Do not pick up your pencil. Draw a line going left, right, up, or down.
Every line must end on a circle. No stopping on an empty box. Try to collect all the circles
 and end your last line on the **E** circle. You can go through a circle more than once.



Didn't get them all? That's ok. This was hard. I missed only _____ circles.

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Growing Up in the White House

By Sharon Fabian

Caption: First Lady Laura Bush and her mother, Jenna Welch, with Washington, D.C., school children in the remodeled theater of the White House's East Wing.



What is it like to grow up in the White House? Few people will ever know. The rest of us can only imagine what it would be like to have a house full of servants, tons of perks, round-the-clock Secret Service protection, and constant media attention.

Presidents and First Ladies who have children in the White House are always careful to shield their children from the media. The result is that we know only a little about the lives of kids who grew up in the White House.

We know that the one hundred thirty-two room house has perks any kid would love, from an unlimited supply of M&Ms to a private, forty-seat movie theater with first-run movies. Then there is the tennis court, the bowling alley, and the pool. There are plenty of guest rooms for sleepovers and even a personal chef. In December, there are over a dozen decorated Christmas trees. Oh, yes, and presidents' kids get to meet celebrities all the time - sports stars, movie stars, and musicians, as well as world leaders.

Grown-up kids in the White House can enjoy an elegant lifestyle. President Nixon's daughter Tricia was married in a beautiful wedding in the White House Rose Garden. Four hundred guests attended.

Teenagers in the White House found things to like and things not to like. One thing they liked was the opportunity to travel. President Bush's twin teenage daughters enjoyed trips to China, South America, and Africa. One thing they didn't like was the constant supervision by the Secret Service. Susan Ford, daughter of President Ford, managed to dodge the Secret Service men, pick up a friend in her car, and go out for an evening of unsupervised fun - once.

Younger White House kids find plenty to enjoy there. You may be surprised to find that some of the activities they enjoy are the same ones that you and your friends like to do.

Chelsea Clinton attended activities outside of the White House like ballet lessons and activities with her church youth group.

Amy Carter had her own tree house on the White House lawn. It was designed by her father. She roller skated often. There was plenty of room for skating in and around the fifty-five thousand square foot mansion.

There is also a story that Amy Carter was interested in mysteries and ghosts. One night she had a friend sleep over. They slept in the historic Lincoln Bedroom since they thought that would be the most likely place to hear the White House ghost.

Another story is about President Lincoln's son, Tad. It says that one time Tad hitched two goats up to a chair. Then he drove them into a White House sitting room where Mrs. Lincoln was busy giving a tour.

Caroline Kennedy had her own nursery school class right in the White House. Her mother arranged it there for Caroline's safety. Other children came to the White House, too, to be in Caroline's class.

The youngest White House kid ever was Esther Cleveland. Baby Esther was the only president's child ever born in the White House.

White House families brought many pets to live there. Cats seemed to be a favorite. There was Amy Carter's Siamese cat and Chelsea Clinton's cat named Socks. The Kennedy family brought lots of pets including dogs, rabbits, guinea pigs, and a pony named Macaroni.

People are always curious about the lives of White House kids, and that is why some people compare living in

Name: _____

the White House, with all that media attention, to living in a fishbowl. In other ways, the White House might just be a fun place to grow up.

Growing Up in the White House

Questions

- _____ 1. Life in the White House includes_____.
A. many servants
B. Secret Service protection
C. media attention
D. all of the above
- _____ 2. Perks for White House residents include _____.
A. a movie theater
B. a personal coach to teach any sport they wish
C. a middle school and high school located in the White House
D. all of the above
- _____ 3. _____ had a tree house at the White House.
A. Susan Ford
B. Amy Carter
C. Caroline Kennedy
D. Tricia Nixon
- _____ 4. Presidents' kids are never allowed outside of the White House.
A. true
B. false
- _____ 5. The White House has its own bowling alley.
A. false
B. true
- _____ 6. Presidents' kids are allowed to have sleepovers in the White House.
A. false
B. true
7. Why did Amy Carter have a sleepover in the Lincoln Bedroom?
- _____
- _____
8. About what is the age range of the White House kids mentioned in this article?
- _____
- _____

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Molecule X is formed at a rate of 14.2 billion molecules per second. Chemical Y is formed at a rate of 6.81 billion molecules per second in the same flask. How many more molecules of type X would be formed after 3.1 seconds?

Mr. Allen said that only 4 out of 23 dogs are chosen to pull sleds in the Iditarod. If that were true, how many dogs out of 90 would be chosen?

Which two of these numbers have a product of 3.484?

6.7

0.067

4.6

0.67

0.046

0.46

0.052

0.52

What number multiplied by 12 has a product of -168?

Name: _____

Complete each pattern. Write what the rule is.

$$6, 12, 6\frac{1}{5}, 12\frac{1}{5}, 6\frac{2}{5}, 12\frac{2}{5}, 6\frac{3}{5},$$

$$12\frac{3}{5}, 6\frac{4}{5}, \underline{\hspace{2cm}}, 7, 13, 7\frac{1}{5}, 13\frac{1}{5}$$

$$8, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, 3\frac{1}{5}, 8\frac{2}{5}, 3\frac{2}{5}, 8\frac{3}{5},$$

$$3\frac{3}{5}, 8\frac{4}{5}, 3\frac{4}{5}, 9, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

Complete each pattern. Write what the rule is. Hint: Look for alternating sequences.

Every third number is the greatest common factor.

$$55, 15, 5, 66, 23, 1, 77, 31, 1, 88,$$

$$39, 1, 99, 47, 1, 110, 55, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$22, 16, 2, 33, 24, 3, 44, 32, 4, 55,$$

$$40, 5, 66, 48, 6, 77, 56, 7, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

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On a number line, what is the number that is 6 spaces right of -3?

$$8 - 16 =$$

Rewrite $12 - 4$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Sketch an obtuse angle named $\angle EFG$.

Sketch a right angle named $\angle GHI$.

An angle measures 48° .
What would you call this angle?

$$\begin{array}{r} 111 \\ + 96 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ + 71 \\ \hline \end{array}$$

$$\begin{array}{r} 423 \\ - 86 \\ \hline \end{array}$$

$$\begin{array}{r} 5.5 \\ \times 9 \\ \hline \end{array}$$

$$2 \overline{)17.2}$$

$$\begin{array}{r} 4.29 \\ \times 6 \\ \hline \end{array}$$

What is the least common multiple of 7, 32, and 17?

$$24 - y = 13$$

$$m + 28 = 41$$

Name: _____

$$\begin{array}{r} 0.84 \\ - 0.432 \\ \hline \end{array}$$

$$\begin{array}{r} 0.8 \\ 0.1 \\ + 0.5 \\ \hline \end{array}$$

$$\begin{array}{r} 7.128 \\ - 4.9 \\ \hline \end{array}$$

Write the reciprocal.

$$\frac{24}{13}$$

Write the reciprocal.

$$\frac{4}{6}$$

Write the reciprocal.

$$\frac{20}{16}$$

Multiply 29 and 8.

$$\begin{array}{r} 41 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 940 \\ \times 2 \\ \hline \end{array}$$

Write as a decimal.

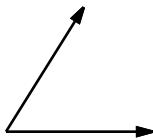
$$\frac{8}{100}$$

Write as a decimal.

$$19\frac{6}{100}$$

Write as a decimal.

$$9\frac{383}{1000}$$



What kind of angle is this?



What kind of angle is this?

Name: _____

Christmas Shopping

By Beth Beutler

The Christmas season is often a very busy one for stores. More shopping is done at this time of year. People are buying gifts for friends, family, and coworkers. The stores stay open longer. Many stores have sales. Store owners hope people will spend a lot of money. If they do, the store might end the year with a big profit. What does that mean? It means that it took in more money than it spent. That is one of the main reasons stores are in business. Will you be helping them make a profit this year? You will if you decide to go shopping there! Wherever you shop, have fun and don't spend more than you've got!



Christmas Shopping

Questions

1. The Christmas season is busy for stores because people are _____ gifts.

- _____ 2. Which of the following groups is NOT mentioned in the paragraph?

A. Neighbors
 B. Friends
 C. Family
 D. Coworkers

- _____ 3. Store owners hope to make:

A. Deals
 B. Change
 C. A profit
 D. Friends

- _____ 4. A profit is what a store makes after paying its expenses.

A. True
 B. False



Name: _____

Sarah was bored. She went to the store and bought a puzzle with 500 pieces. The puzzle cost \$8.87. She gave the clerk \$10. How much change did she get?

George the Glorious donated 10% of the money his magic shows made to the Home for Mature Magicians. Last year he donated \$11,100. How much money did his magic shows make last year?

Max ran in a race to raise money for the Madison River Clean-Up. He ran the first half of the race 3.8 minutes faster than the second half. He ran the second half in 22.2 minutes. What was Max's total time?

$$|69| + |-56| =$$

10, _____, 14, 16, 18,
20, 22, 24, 26, 28

$$7.1557 \times 10^2 =$$

There are 26 students in the Art Club. They all plan to enter a painting in the Mills River Art Contest. Of that number, 20% procrastinated and didn't have a picture completed. How many students have pictures to enter?

The Merry Mart had a candy sale on Candy Day. The store sold the candy for 10% off the regular price. The regular price of a box of Mellow Mints was \$2.84. How much did the box of mints cost on Candy Day?

Posters for Children's Book Week come in packages of 29. If each package costs \$8.21, how much will be spent on posters?

Fill in the missing operations to complete this equation:

$$40 \text{ } _____ \text{ } 19 \text{ } _____ \text{ } 18 = 778$$

$$(6 + 9) + 3 =$$

Name: _____

Mr. Bloop is playing a mini bowling game at an arcade. He has three rolls of a small ball. Each time he tries to knock down all the pins (seven pins each time). On the first try, he knocks down all seven. On the second try, he knocks down 4. On the third try, five pins remain standing after he rolled the small ball. How many did he knock down in all?

If a dense plastic block is dropped into a tank of water, it experiences a change in velocity of -6 m/s. If the original velocity was 26 m/s, what was the velocity immediately after it hit the water?

If you have four 6 in by 6 in x 6 in aluminum cubes and superglue them together in a row, what is the surface area of the resulting shape made by the four cubes?

Amy's boss told her that if her department's income decreases more than twelve percent from last year's income she will not receive a bonus. Amy's department made $\$151,258$ for the company last year. At the end of this year, the company accountant told Amy that her department's income was $\$136,132$. Will Amy receive a bonus this year?

There are $39,384$ colored marbles in a large plastic jar (yes it is a pretty large jar). If two-thirds of them are blue, one-sixth are red, and one-twelfth are green, how many are some other color?

The Littleville basketball team scored 57 points last night. They defeated their archrival Megalopolis. Littleville made 3 three-point shots, 18 field goals, and some free throws. How many free throws did they make?

Name: _____

Avery Island, Louisiana, Also Known As Bird City

By Joyce Furstenau

Lying underneath the lush green plants of Avery Island, Louisiana, is a precious natural resource: a massive salt dome. Native Americans discovered it. They boiled the salty spring water they found there to get salt. They traded the salt with other native tribes to get other things they needed.



Avery Island sits about 140 miles west of New Orleans, Louisiana. It is surrounded on all sides by bayous, salt marsh, and swampland. Ancient salt deposits created the salt dome. There are five of these salt dome islands along the Louisiana Gulf coast. Avery Island was once a sugar plantation. At that time it was known as Petite Anse Island. Petite Anse means "Little Cove" in Cajun French.

A man from New Jersey named John Craig Marsh purchased the island in 1818. Marsh operated a sugar plantation in addition to mining the salt. Daniel D. Avery became a co-owner of the plantation in 1837, after he married John Marsh's daughter, Sarah. He became the sole owner in 1855. Daniel and Sarah's daughter, Mary, married Edmund McIlhenny just before the Civil War. After the war was over, McIlhenny founded his own company on the island and began manufacturing Tabasco brand pepper sauce. He received patents for his sauce processing formula, which is still used today.

Avery Island is known today as the home of Tabasco brand pepper sauce. Some of the peppers used in the sauce are grown on the island. The salt used in the sauce is also from the island. Several Avery family members still live there, and many of the McIlhenny Company's employees live on the island as well.

Much of the island has remained a natural paradise. Around 1895, Edward McIlhenny, son of Edmund and Mary, founded a bird colony on Avery Island. It seems that hunters had slaughtered egrets to near extinction to provide feathers for ladies' hats. Around 1895, Edward found eight young egrets and raised them on the island. He released them in the fall to migrate. The following spring, the egrets returned. The eight egrets grew to a population of thousands. As a result, the island became home to a wildfowl refuge called Bird City. By 1911, the refuge was the nesting ground for an estimated 100,000 egrets. It became known as "the egret capital of the world." Today, visitors from all over the world come to visit the wildlife refuge that continues to thrive on Avery Island.

Avery Island, Louisiana, Also Known As Bird City

Questions

1. In which state is Avery Island located?

- A. Texas
- B. Florida
- C. Louisiana
- D. Mississippi

2. What important natural resource is mined on Avery Island?

Name: _____

3. What was Avery Island called before John Craig Marsh purchased it?

_____ 4. What crop was first planted on Avery Island?

- A. alfalfa
- B. sugar cane
- C. potatoes
- D. cotton

_____ 5. What food product is presently produced on Avery Island?

- A. mustard
- B. Worcestershire sauce
- C. ketchup
- D. Tabasco sauce

_____ 6. Why was Avery Island also called Bird City?

- A. There were birdhouses everywhere.
- B. It was a haven for egrets and other birds.
- C. It was built in the shape of a nest.
- D. The city was inside a birdcage.

In what quadrant would you find the point $(-11, 3)$?

$$18t - 20.8 = 130.4$$

$t =$

If $v = 4$ and $y = -54$ then what is $11v - 9y + 4y = ?$

Write as an algebraic expression.

803.8 multiplied by the difference of y and s

$$\frac{1}{3} + \frac{3}{a} = \frac{14}{15}$$

$a =$

A circle graph has five sections. Only four sections are labeled. The labels are 8%, 18%, 6%, and 12%. What should the missing section be?

Name: _____

50, 55, 60, 65,
_____, 75, 80, 85

$$8 + (9 - 7) + 2$$

The perimeter of a rectangle is 18 cm. The longer side is 5 cm. How long is the shorter side?

How many centimeters in 5.3 meters?

It was 4 degrees above zero in the morning. By afternoon the temperature rose 20 degrees. How warm was it?

$$11 + 11 - 12 + 2$$

Simplify.

$$\frac{12}{16} =$$

Circle the percentage that is closest to 32 out of 63:

45%
5%
45%

$$12a - 17.7 = 55.5$$

$$a =$$

$$y = x + 17$$

$$y = 27$$

What is the value of x?

Each side of a regular pentagon is 77.3 centimeters. What is the perimeter?

$$17c - 14.6 = 121.4$$

$$c =$$

The angles in a quadrilateral measure 96° , 98° , 100° , and b° . What is the value of b?

Find the least common denominator for the fractions $\frac{22}{36}$ and $\frac{7}{24}$.

$$\frac{1}{4} + \frac{t}{7} = \frac{19}{28}$$

$$t =$$

Name: _____

Do Animals Have Bellybuttons?

By Cindy Grigg

Have you ever wondered about bellybuttons? All people have them. Do animals have them, too?

Many animals do have bellybuttons. Dogs and cats have them. Cows and elephants have them, too. Even some animals that live in water have them. Whales and dolphins have bellybuttons. All these animals and people are mammals.

Frogs, fish, lizards, and birds don't have bellybuttons. They are not mammals. Many other animals are not mammals, either. Only mammals have bellybuttons.

Some animals like birds, frogs, and fish lay eggs. Their babies hatch from eggs the mother laid. Mammals are different from birds and fish. Mammal babies grow inside their mother's bodies.

Inside its mother's body, the baby cannot breathe. The mother's body must give the baby oxygen. The baby cannot eat. The mother's body also must give the baby nutrients. The baby is joined to the mother by an umbilical cord. Oxygen and nutrients pass from the mother to the baby through the cord. Wastes from the baby pass to the mother. Then the mother's body gets rid of the baby's wastes when she goes to the bathroom.

The umbilical cord looks like a twisted rope. It is about as long as your arm. It joins to the baby's body near its stomach. That's right, at the bellybutton! It joins to the mother at the placenta. The placenta joins to the mother's uterus. The uterus is an organ inside her tummy. When the baby is born, the placenta is no longer needed. It passes out of the mother's body.

Mammal babies grow inside their mothers' bodies until they can survive outside their mothers' bodies. Some mammal babies are ready to be born in just a couple of months, like dogs and cats. A human baby takes about nine months to grow inside its mother's body. Dolphin babies take about eleven months. African elephants take almost two years before they are ready to be born.

After a mammal baby is born, the umbilical cord is no longer needed. The cord must be cut. This does not hurt the baby or the mother. A little bit of the cord is left on the baby's stomach. It forms a hard scab. After about ten days, the scab falls off. The little circle that is left is called a navel or a bellybutton. It is like a scar. A scar is a mark on the skin. You might have a scar where a sore or a burn has healed.

Almost all mammals have bellybuttons. It is not as easy to see your dog's or cat's bellybutton as it is to see your own. When a mother dog or cat gives birth to babies, each one has its own umbilical cord. The mother animal bites the cord in two. Sometimes it just breaks off.

Just like with human babies, the cord's scab falls off. With puppies and kittens, usually all that is left is a small circle. This little scar shows where the baby and mother were once joined. On a young puppy or kitten, you can easily see the bellybutton. After the puppy or kitten grows, more fur grows and covers it up.



Name: _____

Do Animals Have Bellybuttons?

Questions

- _____ 1. The bellybutton is a scar left from _____.
A. oxygen going into the baby's body
B. the cord that joined a baby to its mother before it was born
C. nutrients going into the baby's body
- _____ 2. Only people have bellybuttons.
A. true
B. false
- _____ 3. All animals have bellybuttons.
A. false
B. true
- _____ 4. What kind of animals have bellybuttons?
A. birds
B. frogs
C. mammals
- _____ 5. Why is the umbilical cord needed?
A. It gives the baby oxygen and nutrients.
B. It takes away the baby's wastes.
C. both A and B
- _____ 6. Which animal baby takes the longest time to be born?
A. dolphin
B. elephants
C. dogs
- _____ 7. Babies that hatch from eggs have bellybuttons, too.
A. true
B. false
- _____ 8. All mammals have bellybuttons.
A. false
B. true
- _____ 9. When the umbilical cord is cut, it does not hurt the baby or the mother.
A. false
B. true
- _____ 10. The umbilical cord looks like a _____.
A. scar
B. twisted rope
C. small circle

Name: _____

Hunter knows that his teacher loves birds. He is building a birdhouse for her for Teacher Appreciation Week. He started working on the birdhouse at 2:39 p.m. Saturday afternoon. He worked until it was all finished at 4:19 p.m. that evening. How long did Hunter work on the birdhouse?

Amy cleaned out her closet. She had three big boxes of clothes, shoes, and "stuff" to donate to the Help Center. Her father carried the boxes to the car and drove her five miles to the Help Center. They left home at 3:42 p.m. and returned at 6:08 p.m. They were at the Help Center for an hour and 30 minutes. How long did the round trip take?

$$0.3 \times 0.06$$

$$8 \times 8 \times 8 \times 8 = x^4$$

What is the value of x ?

What is the value of j ?

$$4j + 12 - 7j = -9$$

Emily made a display about Columbus' three ships. She used three sheets of poster board, each 24 inches x 18.2 inches. What was the total area of the poster board used for the display?

There were 51 cows in the herd. Of that number, $\frac{3}{4}$ were brown, $\frac{2}{12}$ were black and white, and $\frac{1}{12}$ were black. Which group had more cows in it?

Mr. Rodriguez's class took a survey on Pandemonium Day. A third of the students at Mountain Valley School believe they are organized. The rest of the students feel disorganized. If 207 students feel disorganized, how many students were surveyed?

Name: _____

Leprechaun Patty McFeverish is decorating her room for St. Patrick's Day. She is putting down a green rug that is made of green gold.

"That will be \$125 for the rug," says Leprechaun Fortune.

"Wow!" yells Greenie. "I never knew they made green gold. This is beautiful. I must have it for my room!"

"No problem," says Fortune. "But your room is three times as long and twice as wide. It is going to cost you."

How much will it cost to do Greenie's room?

Show your work.

Try drawing a picture to see how much bigger Greenie's room is before you figure out the cost.

Name: _____

Cleft Lip and Palate

By Jennifer Kenny

Have you ever heard of cleft lip or cleft palate? They are some of the most common birth defects. They are treatable. They occur in around 1 in 700 to 1 in 1,000 births in the United States.

During the first six to eight weeks of pregnancy, the baby's head forms. Specifically, five tissues grow. If these tissues fail to close, a gap is formed. As a result, there is often not enough tissue in the child's mouth. Also, the tissues may have not come together properly to form the roof of the child's mouth.

What's the difference, then, between cleft lip and cleft palate? With cleft lip, there's an opening in the skin of the upper lip that goes all the way to the bottom of the nose. With cleft palate, the gap is between the roof of the child's mouth and the nasal cavity.

There are basically three types of clefts. A child can have a cleft lip without a cleft palate. A child can have a cleft palate without a cleft lip. Finally, a child can have both a cleft lip and a cleft palate.

Some children have partial clefting. Others have clefting that extends through both the front and back part of the palates. There's also unilateral clefting and bilateral clefting. Unilateral clefting occurs on one side of the mouth. Bilateral clefting occurs on both sides.

Why does clefting occur? We don't really know. It may be genetic. It may be environmental, or it may be both. People that have a certain gene have a three-time greater chance of having clefting. Researchers have looked into a variety of possible causes in the environment - pesticides, alcohol, smoking, and even certain vitamins.

Even without knowing a definite cause, there are certainly patterns. More boys than girls are born with cleft lip. More girls than boys are born with cleft palate. Parents who were born with clefting are more likely to have children who have it too. Ethnically, Asian children are most likely to have clefting.

Because of its visible signs, cleft lip and cleft palate are easy to diagnose. Many times it is found during an ultrasound during pregnancy. Of course, if it is not noticed then, it is found right after birth.

Surgery is usually done to treat clefting. It has highly successful results. Cleft lip often needs just one surgery two or three months after birth to close the cleft lip. If the cleft lip is bilateral, many times two surgeries are necessary. For cleft palate, reconstructive surgery often takes place at twelve to eighteen months. In this case, tissue is taken from either side of the mouth to rebuild the palate. This requires a longer hospital stay that includes time in the intensive care unit. Many children will need more than one surgery to completely take care of the cleft palate.

Cleft palate and cleft lip bring obvious physical issues with them. However, it goes beyond just appearances. The children often have trouble sucking as babies, which obviously affects feeding. Children with clefting have more ear infections because the Eustachian tubes often don't drain properly. Clefting can make a child's speech harder to understand. Speech therapists can help with speech exercises. Finally, many children with clefting require long-term orthodontic care. Some need the width of the upper jaw increased. Some may need extra teeth removed or dental implants added if teeth are missing. Teeth may need to be aligned as well.

Along with physical issues, children with clefting often have social issues, too. Because their faces are different from others, they often suffer from teasing. It is important to share information on clefting with those who have questions. Children need to develop positive friendships and feel accepted as individuals.

Cleft lip and cleft palate offer many challenges. Children will need a support team of plastic surgeons, orthodontists, speech pathologists, and psychologists. Their feedback and recommendations can help children overcome this treatable birth defect.



Name: _____

Cleft Lip and Palate

Questions

- _____ 1. Cleft lip and cleft palate occur in about _____ births.
- A. 1 in 700
 - B. 1 in 100
 - C. 1 in 10
 - D. 1 in 300
- _____ 2. The shape of a baby's head is formed during the _____ weeks of pregnancy.
- A. 15 to 17
 - B. 26 to 28
 - C. 6 to 8
 - D. 30 to 32
- _____ 3. If there's an opening in the skin of the upper lip that goes all the way to the bottom of the nose, that's _____.
- A. cleft lip
 - B. cleft palate
 - C. none of the above
- _____ 4. A child can have a cleft lip and not have a cleft palate.
- A. false
 - B. true
- _____ 5. What is usually done to treat clefting?
- A. nothing
 - B. medicine
 - C. surgery
 - D. physical therapy
- _____ 6. Cleft palate and cleft lip can also affect _____.
- A. feeding
 - B. speech
 - C. number of ear infections
 - D. all of the above
- _____ 7. Children with clefting often face teasing because of _____.
- A. their weight
 - B. their facial differences
 - C. their hair color
 - D. their height

$$3 \times 88 \div 8 - 30 \div 10 =$$

$$11 - 8 \div 1$$

$$(5 + 19) + 4 = 2(v + 8)$$

What is the value of v?

Name: _____

David and his grandfather picked apples from their orchard and pressed them to make cider. While they worked, they would discuss and solve all the problems in the world. When the kettle was full, they would pour the cider into bottles that they kept in a shed built over a cool stream. When it was time to go to the market, they took some of the cider with them to sell. If each bottle held 2.3 quarts of cider, how many bottles could they fill from a 6.3-gallon kettle?

The revolving stage at the Palace of Illusion moves very slowly. It takes the stage 2.5 minutes to turn 18 degrees. How long does it take the stage to make one complete revolution?

Mr. Clark is making a sign for the haunted house. The sign is 3.5 feet long and 2 feet wide. What is the perimeter of the sign?

Holly measured the pH in a flask of acidic solution several times. She was slowly adding more acid, trying to reach a stable pH of 5.5. Every time she would add a few drops of acid, the pH would drop. A few minutes after she added drops of acid, the pH would start to rise. So she kept this up and finally read the pH four times over a period of five minutes without adding more acid. The four pH measurements were 5.36, 5.49, 5.49, and 5.45. What is the range of her measurements?

$$7 \times 11 = \underline{\hspace{2cm}}$$

Rose rolls a die. What is the chance of her rolling a 5?

$$1 \text{ lb} = 16 \text{ oz}$$

$$10 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$$

Name: _____

Only use a pencil to write the numbers on the blank lines.

You do not need any scrap paper! Solve it in your head.

If you forget a number, then start over. Cool, huh?

Mental Math



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= Do it
in your
head!

imagine 3 in your
head

multiply 11

add 5

Write the tens digit.

A

imagine 8 in your
head

multiply 5

double it

subtract 9

Add the tens digit to
the ones digit. Write
the sum.

B

imagine 8 in your
head

add 9

double it

add 2

subtract 7

subtract 8

Write the even digit
in your answer.

C

imagine 8 in your
head

multiply 10

double it

subtract 9

add 3

Write the tens digit.

D

What is the sum?

A + B + C + D

Wow! Great job! That's the answer, but do you know how to SPELL the number?

_____t_____n

3 after 17 _____

3 before 19 _____

4 after 18 _____

9 after 11 _____

7 before 11 _____

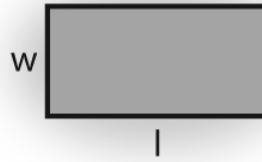
5 after 19 _____

6 after 12 _____

9 before 15 _____

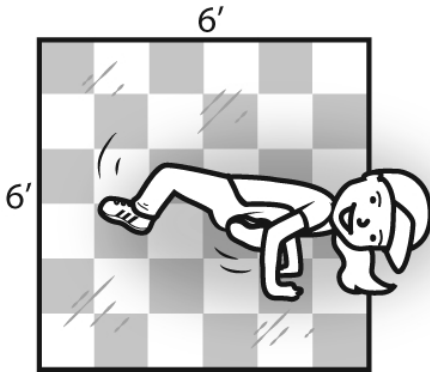
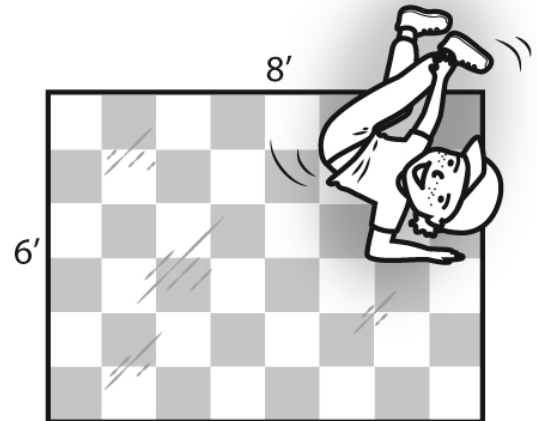
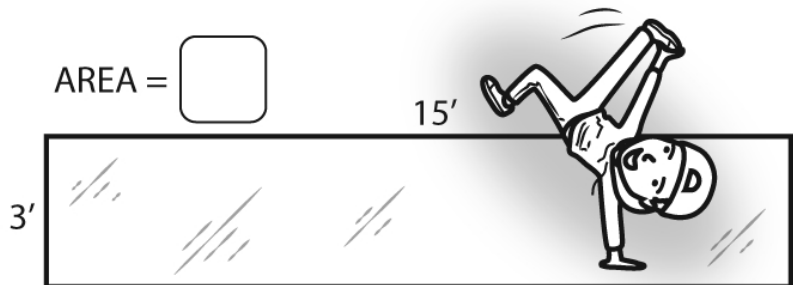
7 after 13 _____

Name: _____



$$\text{area} = \text{length} \times \text{width}$$

$$A = l \times w$$

AREA = AREA = AREA = AREA =

Draw and label
an 8' x 4' dance
floor then find
the area.

AREA =

Name: _____

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

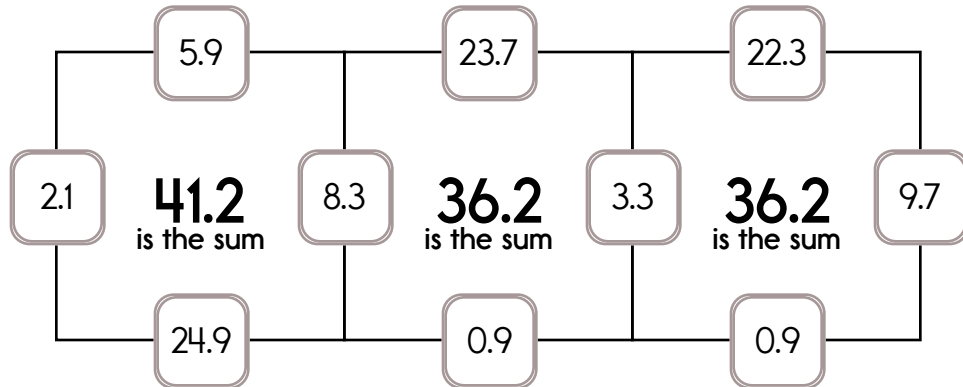
Example:

$$2.1 + 8.3 + 5.9 + 24.9 = 41.2$$

Example:

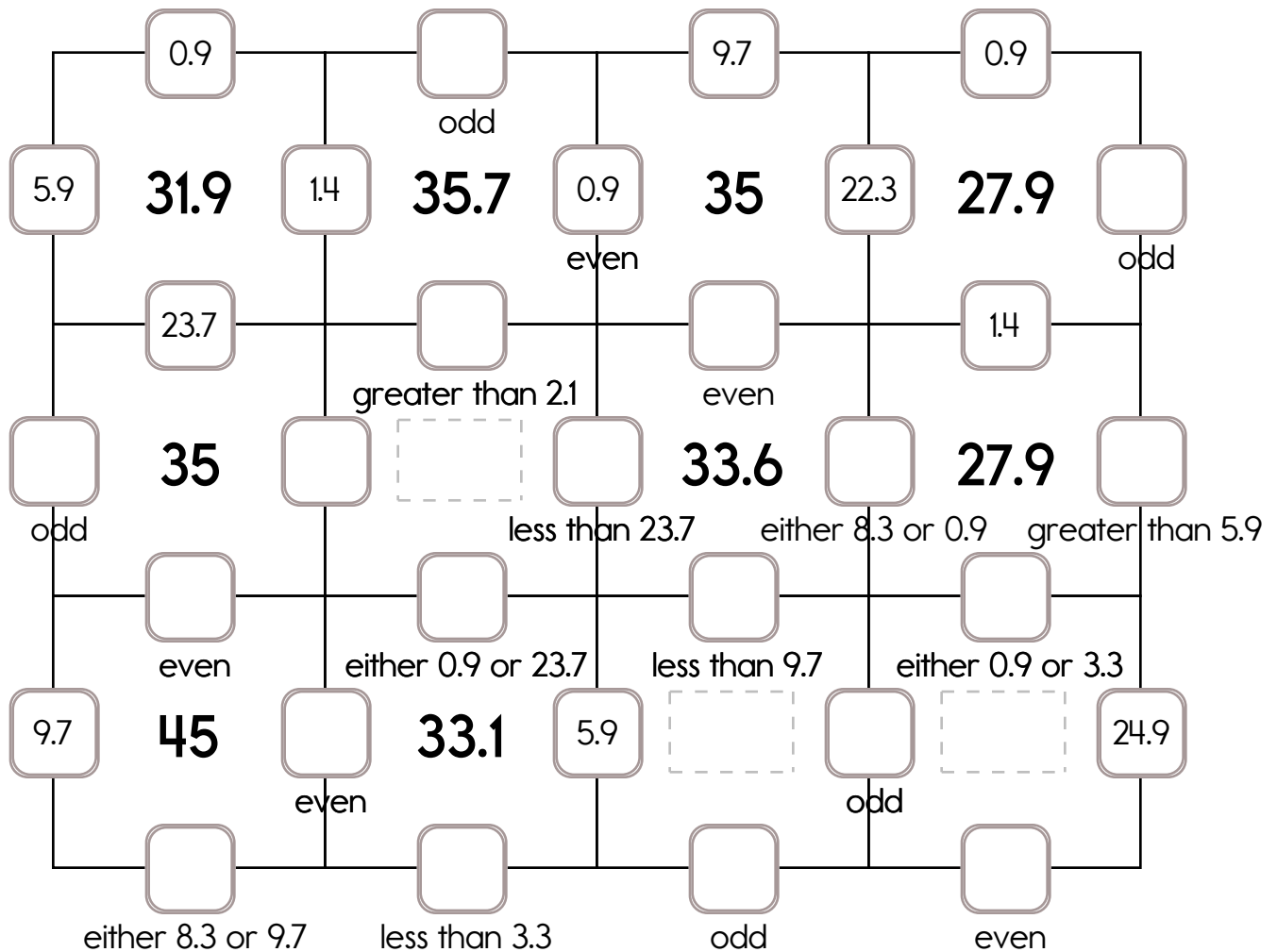
$$3.3 + 9.7 + 22.3 + 0.9 = 36.2$$

Sample:



Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 22.3, 24.9, or 23.7.

The other three numbers have to all be DIFFERENT and must be from these: 0.9, 5.9, 8.3, 9.7, 3.3, 1.4, or 2.1.



Name: _____

Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 19.7, 27.5, or 22.4. The other three numbers have to all be DIFFERENT and must be from these: 4.5, 9.6, 5.2, 7.9, 3.2, or 0.7.

	7.9		7.9		7.9			
4.5	38	22.4	38.7	5.2			33.5	
				odd		odd		
	3.2		3.2					
			odd		either 19.7 or 9.6			
4.5	37		39.7	4.5	39		32.8	
		odd			odd		greater than 3.2	
	less than 22.4		either 5.2 or 22.4		odd		even	
	32.8		38		36		45.1	
			greater than 0.7		either 3.2 or 7.9		odd	odd
	either 0.7 or 4.5		odd		less than 9.6		odd	
	36.6		34.2		38		46.8	
	odd		less than 22.4		either 22.4 or 9.6		less than 9.6	
	odd		either 19.7 or 0.7		odd		greater than 5.2	
	43.8		41.3					
	either 5.2 or 3.2		greater than 4.5		greater than 3.2		less than 19.7	odd
	either 5.2 or 3.2		less than 27.5		odd		less than 22.4	

Name: _____

$2 + 2 = \underline{\quad}$

$4 + 3 = \underline{\quad}$

$7 + 9 = \underline{\quad}$

$9 + 2 = \underline{\quad}$

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

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



How many times
do you need to spin?

I needed to spin _____
time(s) to finish the page.

$8 + 8 = \underline{\quad}$

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

$3 + 9 = \underline{\quad}$

Spin fidget spinner. Quick!

I needed to spin _____ time(s) to finish.

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

$5 + 5 = \underline{\quad}$

$7 \times 8 = \underline{\quad}$

$35 \div 5 = \underline{\quad}$

$9 - 7 = \underline{\quad}$

$7 + 7 = \underline{\quad}$

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

$4 + 4 = \underline{\quad}$

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

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

$5 + 8 = \underline{\quad}$

$49 \div 7 = \underline{\quad}$

$7 \times 7 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$

$8 + 9 = \underline{\quad}$

$8 + 4 = \underline{\quad}$

$5 \times 4 = \underline{\quad}$

$5 + 6 = \underline{\quad}$

$3 + 3 = \underline{\quad}$

$6 + 7 = \underline{\quad}$

$35 \div 7 = \underline{\quad}$

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

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

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

$54 \div 6 = \underline{\quad}$

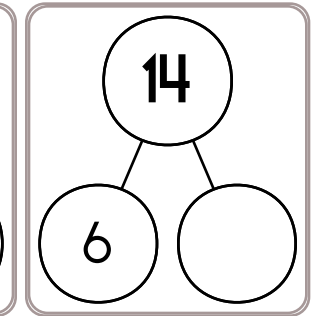
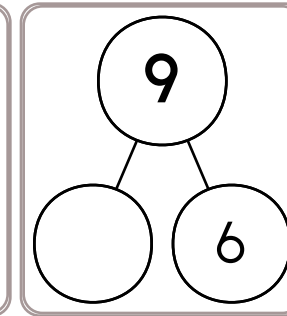
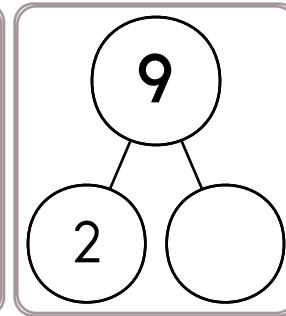
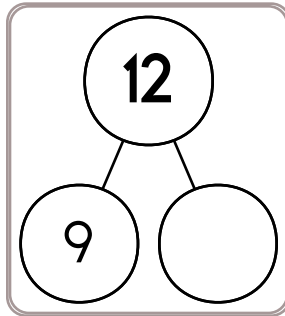
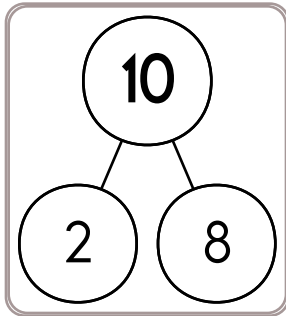
$8 + 8 = \underline{\quad}$

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

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

$4 + 7 = \underline{\quad}$

$8 + 4 = \underline{\quad}$



$55 + 9 = \underline{\quad}$

$48 + 4 = \underline{\quad}$

$66 + 3 = \underline{\quad}$

$74 + 8 = \underline{\quad}$

$38 + 4 = \underline{\quad}$

$16 + 4 = \underline{\quad}$

$23 + 7 = \underline{\quad}$

$49 + 8 = \underline{\quad}$

$75 + 8 = \underline{\quad}$

$33 + 9 = \underline{\quad}$

$56 + 6 = \underline{\quad}$

$27 + 9 = \underline{\quad}$

$14 + 7 = \underline{\quad}$

$67 + 3 = \underline{\quad}$

$48 + 3 = \underline{\quad}$

$34 + 8 = \underline{\quad}$

$16 + 5 = \underline{\quad}$

$23 + 4 = \underline{\quad}$

$79 + 7 = \underline{\quad}$

$53 + 6 = \underline{\quad}$

$65 + 3 = \underline{\quad}$

$27 + 3 = \underline{\quad}$

$54 + 5 = \underline{\quad}$

$78 + 9 = \underline{\quad}$

$48 + 8 = \underline{\quad}$

Name: _____

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

$1 + 7 = \underline{\quad}$

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

$8 + 9 = \underline{\quad}$

$7 + 3 = \underline{\quad}$

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



How many times
do you need to spin?

I needed to spin _____
time(s) to finish the page.

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

$2 + 4 = \underline{\quad}$

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

Spin fidget spinner. Quick!

I needed to spin _____ time(s) to finish.

$9 \times 3 = \underline{\quad}$

$8 + 5 = \underline{\quad}$

$4 + 6 = \underline{\quad}$

$4 \times 8 = \underline{\quad}$

$4 + 6 = \underline{\quad}$

$7 \times 7 = \underline{\quad}$

$7 + 9 = \underline{\quad}$

$28 \div 7 = \underline{\quad}$

$6 + 5 = \underline{\quad}$

$20 \div 5 = \underline{\quad}$

$8 + 4 = \underline{\quad}$

$8 \times 4 = \underline{\quad}$

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

$9 \times 9 = \underline{\quad}$

$3 \times 3 = \underline{\quad}$

$5 + 6 = \underline{\quad}$

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

$8 + 5 = \underline{\quad}$

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

$4 \times 7 = \underline{\quad}$

$30 \div 6 = \underline{\quad}$

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

$8 + 4 = \underline{\quad}$

$4 - 3 = \underline{\quad}$

$9 \times 5 = \underline{\quad}$

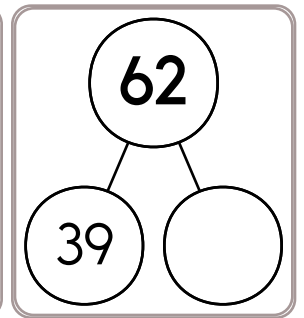
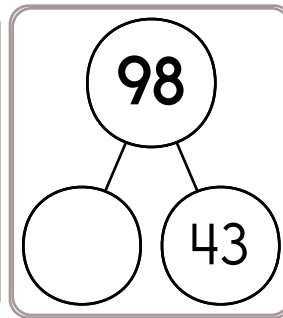
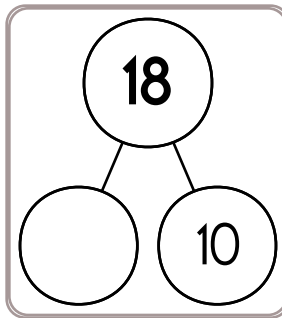
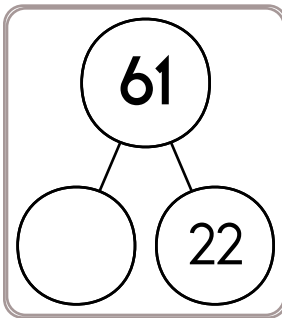
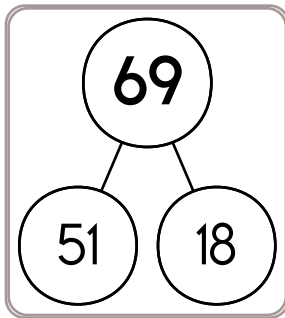
$7 + 8 = \underline{\quad}$

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

$32 \div 8 = \underline{\quad}$

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

$8 - 4 = \underline{\quad}$



$18 + 5 = \underline{\quad}$

$28 + 4 = \underline{\quad}$

$63 + 4 = \underline{\quad}$

$36 + 6 = \underline{\quad}$

$49 + 9 = \underline{\quad}$

$54 + 6 = \underline{\quad}$

$76 + 5 = \underline{\quad}$

$58 + 8 = \underline{\quad}$

$75 + 3 = \underline{\quad}$

$34 + 8 = \underline{\quad}$

$26 + 4 = \underline{\quad}$

$14 + 3 = \underline{\quad}$

$64 + 9 = \underline{\quad}$

$44 + 7 = \underline{\quad}$

$65 + 8 = \underline{\quad}$

$14 + 8 = \underline{\quad}$

$23 + 9 = \underline{\quad}$

$45 + 4 = \underline{\quad}$

$59 + 6 = \underline{\quad}$

$67 + 5 = \underline{\quad}$

Name: _____

Arcadia Brown

By Beth Beutler

"My new niece is here!" Allison said in her text to her friend Melissa.

"Very cool," Melissa texted back. "What's her name?"

"Arcadia," Allison replied.

Melissa thought Arcadia was an interesting name. It certainly was unusual. Later that day, when she sat with Allison for lunch, she brought it up.

"Why did they name your niece Arcadia?" she said before biting into her hamburger.

"Arcadia means 'adventurous,' " Allison replied. "My sister and brother-in-law are adventurous people, so it fits."

"Aren't they the ones that go scuba diving and skydiving?" Melissa asked.

"Yes. They also do rock climbing."

"Are they going to take the baby with them?" Melissa said with a giggle.

"I'm sure they will encourage her to try new things," Allison said. "They are always doing that to me."

The girls took a few bites of their lunches before continuing.

"I really like the sound of the name Arcadia," Allison said. "Their last name is Brown, so it flows nicely."

"I agree," Melissa said. "Sometimes I wish my parents had given me a more unique name."

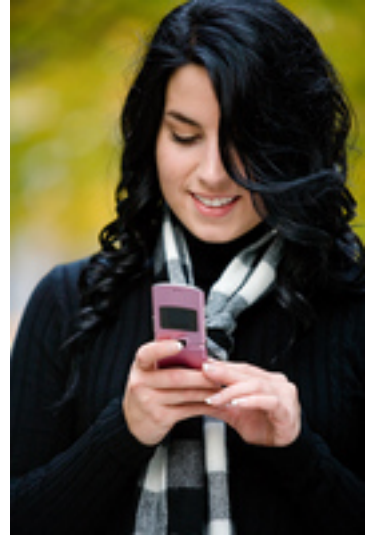
"I like your name. Plus, I can call you Missy," Allison said, chuckling and poking her friend playfully.

Melissa made a face. She hated the nickname Missy, and her friend knew it. "Be careful, or I'll start calling you Allie," Melissa said.

"No problem, I like that nickname," Allison responded, sticking her tongue out in a tease.

Melissa rolled her eyes. "Let's forget about names for awhile, okay?"

"Sure, Missy," Allison said with a grin.



Arcadia Brown

Questions

_____ 1. What does Arcadia mean?

- A. special
- B. adventurous
- C. pretty
- D. intelligent

Name: _____

edHelper

_____ 2. What activity is NOT listed?

- A. scuba diving
- B. mountain biking
- C. skydiving
- D. rock climbing

3. What is Melissa's nickname?

_____ 4. How does Melissa feel about her nickname?

- A. doesn't care one way or the other
- B. likes but doesn't love it
- C. loves it
- D. hates it

5. What could Allison's nickname be?

_____ 6. What does Allison continue to call Melissa?

- A. Lisa
- B. Melissa
- C. Missy
- D. Mel

7. Do you think Allison's teasing is good fun or mean?

_____ 8. What relation is Arcadia to Melissa?

- A. sister
- B. aunt
- C. niece
- D. cousin

$$4 \times 4 = Z^y$$

What is the value of Z
and y?

Simplify.

$$\frac{12,500}{22,500} =$$

In what quadrant would you
find the point (-3, -19)?

Name: _____

Dyno Dental Floss is packaged into boxes measuring 3 inches by 3 inches by 0.5 inches. How many boxes of Dyno Dental Floss can be packed into a box measuring 12 inches by 10 inches by 8.5 inches?

Megan used masking tape to make a hopscotch outline on the floor of the playroom. She taped the full length and width of each of 8 squares. If she used 17 yards of masking tape, what were the measurements of each square?

What is 7% of 57?

Ready to draw a face? First draw the eyes by drawing two right triangles. Now for the mouth. Draw a trapezoid for the mouth. Draw a heptagon for the nose. Now have fun and finish the face!

Name: _____

Hannah helped her mother make cookies for the people in the care center. They worked very hard for almost five hours. When all the cookies were baked, they took one and a half dozen fresh cookies to each of the people at the center. There were 15 people at the care center. How many cookies did Hannah and her mother take to them?

Mary's team decided to make her Aunt Mary's brownies for the brownie taste test. Aunt Mary gave them the recipe, but it was for fourteen dozen brownies! (Aunt Mary had gotten the recipe when she was a cook in the Army!) The recipe called for ten and a third cups of chocolate chips. Mary's team is only going to make one dozen brownies. What measurement of chocolate chips will the team need?

41, _____, 75, 92, 109,
126, 143

$$1 \times 7 + 12 \times 12 - 7$$

If $t = 5$ and $a = -19$ then
what is $10t - 9a - 4a = ?$

Girls' Day is held on the third day of the third month in Japan. Boys' Day is celebrated on the fifth day of the fifth month. This day is also called Children's Day. How many days after Girls' Day does Children's Day occur?

Three boys put all their pennies together to buy popcorn. Eric gave $\frac{1}{4}$ of the pennies. Jack gave $\frac{1}{8}$ of the pennies. They had 464 pennies in all. How many pennies did Nathan give?

The U.S. Post Office issued the Amelia Earhart 8 ¢ commemorative airmail stamp on her birthday, July 24, 1963. Mrs. Lee bought \$2 worth of the stamps. How many stamps did she buy?



Name: _____

Peter and April are playing a game in which each player either wins, loses, or draws (ties) at each turn. The winner of a turn is awarded 5 points, and the loser loses 5 points. If it is a draw, 0 points are awarded. For the first eight rounds Peter had the following results: lose, win, lose, win, win, lose, win, draw. What was April's point total for the rounds?

Jason has five different kinds of cars to use on his model railroad. In how many different orders can he arrange the cars to be pulled by the engine?

According to the statistics, the Megalopolis lacrosse team scores 22% of their goals in the first half of play and the rest during the second half. Thus, it seems that the coach's opinion that they are a "second half team" is correct. If they scored 18 goals in the first half this year, about how many did they score in the second half?

A soil sample from the nearby power plant has 284 grams of sand in every kilogram of soil. What percent of the soil is made up of sand?

If the temperature starts out in the morning at 14°C but drops 18° by midnight (a cold front blew in), what is the temperature then?

If one-fifth of all type-Y organisms are bristly, and six-sevenths of all type-Y organisms are wrinkly, what is the maximum number of type-Y organisms that are neither bristly nor wrinkly out of a sample population of 330?