

Name: _____

Petroleum

By Meg Leonard

Crude oil is another name for petroleum. Petroleum means "rock oil." It is naturally made from the remains of sea plants and animals. These plants and animals lived at the time of the dinosaurs. When the plants and animals died, they sank to the bottom of the sea. Mud covered them. Heat and pressure from the mud caused the decaying plants and animals to turn into crude oil after millions of years. This is the oil that comes straight out of the ground. It is smelly. It is yellow to black in color. It is found in underground reservoirs. Workers drill into the ground to bring the crude oil to the surface. The crude oil is taken to a refinery where it is separated into parts. Different parts are used for different products. Most parts are used to make electricity. Other parts are used to make things like tar, crayons, or bubble gum. Oil is a non-renewable resource. Drilling for oil can harm animal life. Oil spills in the ocean can cause big problems. When petroleum products are burned, they make air pollution. Scientists are working to find ways to make petroleum products safer for the environment.



Petroleum

Questions

- _____ 1. Which of the following is another name for crude oil?
- A. heat
 - B. petroleum
 - C. gas
 - D. coal
- _____ 2. How long does it take to make petroleum?
- A. 150 years
 - B. millions of years
 - C. 15,000 years
 - D. 15 years
- _____ 3. Petroleum forms from the remains of _____.
- A. mountain animals
 - B. animals and plants
 - C. river animals
 - D. desert animals
- _____ 4. What is the name for petroleum when it comes out of the ground?
- A. mentholateum
 - B. fresh oil
 - C. crude oil
 - D. new oil
- _____ 5. According to the article, which of the following is NOT made from oil?
- A. trees
 - B. bubble gum
 - C. crayons

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6. How does petroleum form?

$$414 \div 10$$

The letter V has an unknown value. If you multiply V by nine, the product is three. What value does V have?

Rewrite $\frac{49}{100}$ as a decimal.

Anne told the class that they should drink about 1.83 liters of water per day. There are 20 kids in the class, including Anne. They will all try to do that. How much water will the class drink in a day?

What is the mode of the following number set?

86, 84, 79, 89, 81, 79, 88, 85, 83, 89, 78, 82, 74, 87, 74, 75

A circle graph has four sections. Only three sections are labeled. The labels are 18%, 22%, and 11%. What should the missing section be?

What is the remainder of 59 divided by 14?

$t - 5 + t = 27$
What is the value of t?

If $p = -8$ and $x = 16$ then what is the value of g?
 $10p - 9x - 4x = g$

$$0.008 \times 0.6$$

What is the remainder of 34 divided by 6?

$17 - t + 8 = 12$
What is the value of t?

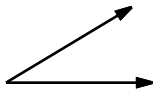
Name: _____

Jason made cookies for Remembrance Day. He made $1\frac{1}{3}$ dozen chocolate cookies, 2 dozen peanut cookies, and $2\frac{1}{2}$ dozen oatmeal cookies. If he puts the same number of each cookie in each bag and has no cookies left over, what is the largest number of bags he can fill?

The Poppytown Library has copies of records from the old county courthouse. The staff receives an average of 49 requests each month for help in locating records. If it takes approximately 98 minutes to find the records for someone, how much time does the staff spend in a year looking for records? Write your answer in hours and minutes.

Write the number that when multiplied by 8 is -48. _____

What number multiplied by -10 results in a product of -50? _____















What kind of angle is this?

Sketch 2 lines \overleftrightarrow{AB} and \overleftrightarrow{ST} that are intersecting.

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Each box needs a number from 1 to 9. You may re-use numbers.
One set of sums has been done for you.

sum of 3 ↓	sum of 6 ↓			sum of 8 ↓	sum of 10 ↓	sum of 7 ↓	sum of 5 ↓
		sum of 9 ↓	sum of 6 ↓				
							
	sum of 5 ↓			sum of 4 →			
sum of 9 →				sum of 7 →			
sum of 9 →					sum of 9 →	3	6

sum of 7 ↓		sum of 10 ↓		sum of 10 →			
	sum of 9 →					sum of 6 ↓	
			sum of 5 →				
	sum of 6 →	2	2	2			
sum of 8 ↓	sum of 7 ↓	sum of 6 →					sum of 6 ↓
		sum of 7 →					
		sum of 5 →					
					sum of 8 →		

How many ounces are in 6 pounds? _____ ounces	581 - 383 = _____	
Rewrite these in increasing order of length: 5 dm, 993 mm, 270 km	What should replace the A in this equation? $24 \div 12 + A = 43$	
Circle the smallest number: 387,520,496 58,420,139 679,143,560,728 4,536	$\begin{array}{r} 496 \\ + 249 \\ \hline \end{array}$	$2 \times 8 = \underline{\hspace{2cm}}$

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

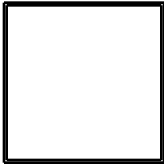
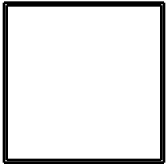


Draw 1 of these 3 pictures.
The picture is NOT in the correct spot.



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

Draw the 3 pictures in the correct order:

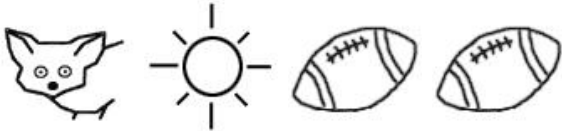


Draw 1 of these 3 pictures.
The picture IS in the correct spot.



Draw 2 of these 3 pictures.
1 of those pictures is in the correct spot.

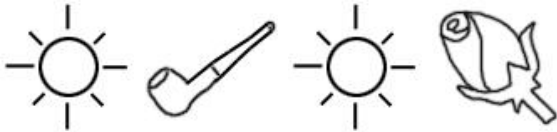
Draw 4 pictures in the correct order. Use each of the clues so you will know what to draw.



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

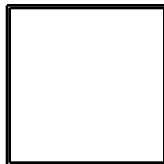
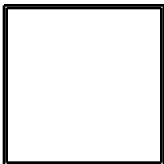
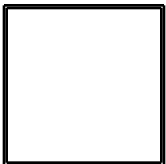


Draw 1 of these 4 pictures.
The picture is NOT in the correct spot.



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

Draw the 4 pictures in the correct order:



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



Draw 2 of these 4 pictures.
1 of those pictures is in the correct spot.



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

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King Abdullah II's Birthday

By Ekaterina Zhdanova-Redman

How old are you? You can probably answer that question without thinking. A person's age can tell a lot. At your age, it can tell what school grade you're in. As you get older, your age will mean other things. When you can drive a car, when you can vote, and when you can get married all come with age.

Your age is just a measurement. Each birthday, you add one year. For many people, birthdays are really important days. Is your birthday important to you? For some people, their birthday decides something very important: whether or not they will become a king!

Many countries have a king and a queen. Usually, a king is king until he dies. When he dies, the job of king is usually given to his oldest son. Jordan is a country that has a king and queen. Jordan is located in the Middle East, next to Israel, Syria, Saudi Arabia, and Iraq. It has a very long history. Like many countries in the Middle East, it has a history as old as humankind.



Today, Jordan is ruled by King Abdullah II bin Al Hussein (or just King Abdullah II for short). He and his wife, Queen Rania, live in Amman, Jordan's capital city. King Abdullah II is the latest in a long line of Jordanian kings. In fact, he is the 43rd direct descendent of the Prophet Muhammad. Muhammad is the founder of the religion of Islam.

King Abdullah II was the oldest son of King Abdullah. He became king when his father died on February 7, 1999. Before becoming king, though, Abdullah II was many things. He was an army commander, a pilot, and a student of politics. In fact, Abdullah II attended some of the best schools in Britain and the United States.

King Abdullah II was born on January 30, 1962. He is the oldest of four brothers and six sisters. Each year on January 30th, people from all over Jordan, and Jordanians all over the world, celebrate their king's birthday. The king and queen are well-liked in Jordan.

Jordan's king and queen have many children. They have two sons, Prince Hussein and Prince Hashem, and two daughters, Princess Iman and Princess Salma. King Abdullah II will probably be king until he dies, when Prince Hussein will become king. But until King Abdullah's oldest son takes the crown, the people of Jordan will celebrate January 30th each year. Who knew a birthday could mean so much?

King Abdullah II's Birthday

Questions

- _____ 1. Jordan is located where?
- A. in the Middle East
 - B. in South America
 - C. in North America
 - D. in Asia
- _____ 2. King Abdullah II has never traveled outside his home country.
- A. False
 - B. True

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- _____ 3. Which of the following isn't one of King Abdullah II's previous jobs?
- A. pilot
 - B. military commander
 - C. professional musician
 - D. student
- _____ 4. How many children do King Abdullah II and Queen Rania have?
- A. 8
 - B. 4
 - C. 2
 - D. 6
- _____ 5. What is the capital of Jordan?
- A. Baghdad
 - B. Hashem
 - C. Amman
 - D. Nairobi
- _____ 6. A king's son is known as a prince.
- A. True
 - B. False
- _____ 7. What is King Abdullah's birthday?
- A. February 1
 - B. January 30
 - C. July 30
 - D. January 20
- _____ 8. King Abdullah II is very unpopular in Jordan.
- A. True
 - B. False

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

What is the value of x?

$$7 \times 7 \times 7 \times 7 = x^4$$

What is the value of x?

$\frac{1}{5}$, (1), (5), (25),
(125), (625), _____,
(15,625), (78,125)

Rewrite $\frac{3}{5}$ as a decimal.






















Simplify.

$$\frac{36}{54} =$$

$$3 + (39 \div 3) - 88 \div 11 =$$

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Puzzle:

					47
2		2			34
			2	2	33
					42
					54
45	47	41	37	40	+

Work Area:


					47
2		2			34
			2	2	33
					42
					54
45	47	41	37	40	+


The sum for each column
and row is given.

 = _____

 = _____

 = _____

 = _____

 = _____

$20y = 100$

$\frac{N}{11} = 6$

$\frac{120}{N} = 10$

Yummy Donuts gave three
dozen chocolate donuts
and five dozen jelly donuts
to the school. How many
donuts did they give?

How many meters are
there in 156 kilometers?

I, L, K, M, M, _____, O,
O, Q, P

$15 \div 3 = \underline{\hspace{2cm}}$

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$$-5 + -8 =$$

$$3 - 4 - 1 =$$

$$-54 \div -6 =$$

Find the sum of 12 and 23.

$$\begin{array}{r} 42 \\ + 34 \\ \hline \end{array}$$

Subtract 56 from 498.

Rewrite $13 - 7$

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

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

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

On a number line, what is the number that is 4 spaces right of -1?

Write the reciprocal.

$$11$$

Write the reciprocal.

$$\frac{14}{5}$$

Write the reciprocal.

$$\frac{3}{4}$$

$$\begin{array}{r} 3.2 \\ - 2.72 \\ \hline \end{array}$$

What is the sum of 15.3 and 3.1?

$$\begin{array}{r} 18.333 \\ - 8.544 \\ \hline \end{array}$$

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Change $\frac{5}{8}$ to a decimal.

Change $\frac{1}{20}$ to a decimal.

$$3 \overline{)12.3}$$

What is the least common multiple of 12 and 9?

$$y + 29 = 44$$

What is the greatest common factor of 3 and 15?

$$\begin{array}{r} 43 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} 432 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ \times 64 \\ \hline \end{array}$$

Write as a decimal.
Four and eight tenths

Write as a decimal.
Eleven and two hundredths

Write as a decimal.

$$3\frac{5}{10}$$

Change to a percent.

$$\frac{25}{100}$$

Change to a decimal.
4%

Write the ratio as a fraction in lowest terms.
4 nickels to 10 quarters

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Are You a Gorilla?

By Erin Horner

Do you have two arms and two legs? Then you might be a gorilla. Do you have four fingers and a thumb on each hand, and fingernails rather than claws? Then you might be a gorilla. Do you like to wrestle and have fun? Then you might be a gorilla. Do you make silly faces to show how you are feeling? Then you might be a gorilla. Do you walk around on your knuckles and eat 40 pounds of leaves each day? You don't? Then I guess you are not a gorilla!

Gorillas are very large primates. They live in Africa. They are similar to humans in many ways. But they are also very different. Like humans, gorillas have two arms and two legs. A gorilla's arms, however, are much longer than their legs. The average gorilla is six inches shorter than an adult man. But his arms are more than a foot longer than an adult man's!

Gorillas also stand up like humans. But unlike us, they don't walk standing up. They bend over and use their arms and legs. Gorillas "knuckle walk." They walk using the back of their fingers or their knuckles. A gorilla's bone structure is also a lot like ours.

Gorillas and people are a lot alike. In fact, gorilla means "hairy person." But thankfully, gorillas and people have a lot of differences as well. I've never met a child who is covered with thick, black fur!



Are You a Gorilla?

Questions

1. Name two ways that gorillas and humans are similar.

- _____ 2. What is this article mainly about?

A. How to identify gorillas
B. The similarities and differences between humans and gorillas
C. A gorilla's habitat
D. A gorilla's diet

- _____ 3. In this passage the word *rather* means _____.

A. sometimes
B. More than
C. In addition to
D. Instead

- _____ 4. How is this passage organized?

A. It makes a statement and then gives reason why it is true.
B. It states a cause and then gives effects.
C. It gives the steps in a process.
D. It tells how things are alike and different.

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Holly is going to a party. She has procrastinated getting ready all day. Now it is 5:13 p.m., and the party begins at 6:00 p.m. It will take her 20 minutes to shower, 17 minutes to get dressed, 15 minutes to do her hair, and 29 minutes to get to the party. What time will she arrive?

Eric flew home for Christmas. His flight was 2 hours and 13 minutes. The flight landed in Jacksonville at 4:33 p.m. It took him 38 minutes to drive to the airport, and he was an hour and 14 minutes early for his flight. At what time did he leave his house?

The mass of Anna's cat is 16 grams more than Megan's cat. April's cat is 66 grams more than twice the mass of Megan's cat. Megan's cat's mass is 1,405 grams. What is the mass of April's cat?

Maria was very happy. She had a new Chihuahua puppy. It was her responsibility to feed him. Her father told her the puppy would eat $\frac{1}{2}$ of a small can of food each day. How much would the puppy eat in four weeks?

Last year Mr. Allen planted corn on 4.3 acres of his farm. His neighbor planted 3.5 times as many acres of corn. How many acres of corn did Mr. Allen's neighbor plant?

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Many people have heard of the Great Plague of London in 1665 when a combination of Bubonic Plague and Pneumonic Plague killed 70,000 people out of a population of 460,000. How many people in London were not killed by the plagues?

Ms. Floop said, "There are three ways to tell if two fractions are equal to each other or if one is greater than the other." What are the three ways?

Adam reads about 62 pages a week of science fiction and 37 pages a week of nonfiction. How many pages does he read if he reads for W weeks?

A school play (with three acts) started at 6:00 p.m. and lasted until 7:27 p.m. Half the time was spent on Act 1 and $\frac{1}{3}$ of the time was spent on Act 2. How many minutes were spent on Act 3?

On the planet Torvus, a Flarp is $\frac{1}{3}$ of a Gleek, and a Gleek is worth 9 Slomps. How many Flarps are in 72 Slomps?

If $\frac{1}{4}$ of David's games are strategy games and he has 17 games, how many of his games are strategy games? Round your answer to the nearest whole number if needed.

Simplify.

$$\frac{18,400}{41,400} =$$

$$|-14| - g = 9$$

$$g =$$

$$17.5307 \times 10^2 =$$

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Warpaint Emerald Dragonflies

By Mary Lynn Bushong

The long summer evening seemed shorter than usual because of the overcast sky. Even so, the ponds and pools were full of activity. Mosquito larvae waited at the surface of the water until something disturbed it or a shadow passed over. Then they would suddenly wriggle downwards.

It was over such a pool that a warpaint emerald dragonfly female hovered. The males love bright sunny days, but the females prefer overcast skies.

She found a section of water that she liked for laying her eggs. Then she hovered and dipped her abdomen into the water over and over but in a slightly different place each time.

The eggs settled into the sphagnum moss in the shallow water, hidden from predators until hatching time. The summer ended, and winter came. The little eggs were encased in ice until the spring thaw released them once more.

Life filled each egg. Soon one small dragonfly nymph hatched. She was a hunter from the first moment she emerged. She also looked nothing like her future adult self.

She had a long body and six legs but no wings. Most of all, she was hungry. The nymph did not care what she ate so long as she could eat.

Mosquito larvae were plentiful, and they made quick meals. She was also willing to eat any other insect larvae including that of other dragonflies. If she could catch them, they were eaten. The warpaint nymph didn't stop with other insects. She was also happy to eat tadpoles and small fish. The life of a dragonfly was to eat or be eaten.

The dragonfly nymph lived only in the water and breathed with the aid of gills. The world above the water was of little concern to her.

Summer brought an abundance of food. The pool was like a banquet table all summer.

Fall slowed the nymph down with cooler water. Instinct told her to find a deep mossy place to pass the winter. Soon winter descended over the pond, and ice locked her into its frozen embrace for a second time.

When spring came, the dragonfly nymph was released from the ice and began hunting right away. She ate and she ate. Then, early in the summer she felt a strange urge.

Instead of staying in the water and hunting, the nymph climbed onto the sphagnum moss and pulled herself out of the water. She shuddered as she took a breath of air for the first time.

Locking her nymph legs into position, her hard outer skeleton began to split down her back. When the split was wide enough, the new dragonfly stepped out, leaving the empty shell of the nymph behind.

The young warpaint emerald dragonfly sat in the sun and pumped up her wings until they were flat and stiff. Then, helped by a light breeze, she was aloft.

Now instead of hunting under the water, she hunts in the air. Her legs, covered in small spikes, help her to hold her prey when caught. Her wings allow her to hover and suddenly accelerate as she catches flies and mosquitoes.

While one of the larger-sized dragonflies, she is not the largest and must watch out for birds and bigger dragonflies that would make a meal of her while she flies. Her life as an adult dragonfly will be short - only about five weeks.

In the waning days of summer, she will wait for a cloudy day. Then she will lay her eggs in the water and plant the seeds of a new generation. Then, by summer's end she will die, having fulfilled her purpose in life.

Different kinds of dragonflies live all over the world. Many of them are endangered, as is the warpaint emerald

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dragonfly. One thing they need is clean water. While these dragonflies use the shallow water in some lakes, they prefer wetlands, especially ones with sphagnum moss. Moss harvesting and possible contamination of wetlands with pesticides in their limited range make life difficult for these small soldiers against pests.

Warpaint Emerald Dragonflies

Questions

- _____ 1. This story is about a:
- A. mosquito
 - B. mayfly
 - C. dragonfly
 - D. damselfly
- _____ 2. The immature dragonfly nymph lives in dry moss.
- A. true
 - B. false
- _____ 3. The nymph mainly eats algae.
- A. true
 - B. false
- _____ 4. The warpaint emerald dragonfly is an endangered species.
- A. false
 - B. true
- _____ 5. Which of these is something the dragonfly nymph does NOT eat?
- A. fish
 - B. mosquito larvae
 - C. tadpoles
 - D. turtles
- _____ 6. The dragonfly nymphs breathe with gills.
- A. true
 - B. false
- _____ 7. How long does this dragonfly live from the time its egg is laid until it dies as an adult?
- A. five years
 - B. five months
 - C. two years
 - D. five weeks
- _____ 8. This species of dragonfly has no enemies.
- A. false
 - B. true

$33,633 + 73,282 = \underline{\hspace{2cm}}$	$1 \text{ km} = 1,000 \text{ m}$ $8 \text{ km} = \underline{\hspace{2cm}} \text{ m}$
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The (make-believe) country of Slowmonia, after 15 years of research, launched a rocket into space to land on Pluto. It is slow! It travels 2.456 kilometers in a month. How far will it travel in 60 years?

Zeeka has invented a new space vehicle to go from his home planet of Zomba to his friend's planet of Oomba. It is a fun ride! It can fly at a speed of 720 mph. How far will it go in 30 minutes? Round your answer to the nearest mile.

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In each group, use 4 of the numbers to make a proportion.

32

22

47

16

4

8

39

30

13

37

10

46

Pam can't wait for her friend to visit.

"As soon as you leave the airport, drive 51 miles to exit 5," says Pam.

"I don't think you mean miles. They use kilometers here," says Megan.

Help Pam tell Megan how many kilometers to drive. Use 1 mile = 1.6 kilometers.

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Smokeless Tobacco

By Jennifer Kenny

Smokeless tobacco is any tobacco that is not smoked. The term smokeless tobacco usually refers to chewing tobacco, dipping tobacco, and snuff. Snuff is a tobacco that users sniff or inhale up their nose. They may also hold it in their mouths. Chewing tobacco is a tobacco that users chew. Dipping tobacco is placed between the cheek and gums.

Smokeless tobacco contains nicotine, just like cigarettes do. The nicotine is absorbed into the blood. It is addictive. It causes the person to crave more, just as a person would crave another cigarette. Some people think using smokeless tobacco is safer than smoking cigarettes. Ironically, though, more nicotine gets into your body using smokeless tobacco than smoking cigarettes. Besides nicotine, smokeless tobacco contains nearly thirty other ingredients known to cause cancer!

The image of baseball players using smokeless tobacco doesn't help promote the idea that it is dangerous. Instead, this can make it appealing to those who don't know the facts. The facts are that about 70% of those using smokeless tobacco have sores in their mouths. Using smokeless tobacco can destroy taste buds. Mouth cancer is a real possibility to users.

Smokeless tobacco will also cause yellow-brown stains and wear down the user's teeth. It causes cavities and gum disease. It causes bad breath. It raises blood pressure and cholesterol levels. Therefore, it increases the chance that the user will have a heart attack.

According to the Centers for Disease Control and Prevention, thirteen percent of high school boys and two percent of high school girls use smokeless tobacco. Around ten million Americans of all ages are users of smokeless tobacco. Most started before they were 13 years old! Many started because they saw sports idols use it, because of peer pressure, or the hope of looking macho.

Some baseball legends are pulling together to convince players, fans, and young people that chewing and dipping are addictive and unsafe. Bill Tuttle, formerly of the Detroit Tigers, lost most of his face to cancer caused by his habit. He died at the age of 69. Joe Garagiola, Curt Schilling, and Hank Aaron have spoken out about the dangers of smokeless tobacco. Von Gruen is another athlete who spoke to Congress about the dangers of using smokeless tobacco and his mouth cancer.

When people are trying to quit using smokeless tobacco, they should get help! When they are craving, they should talk to a supportive person. They could go for a walk. They should get their teeth cleaned so they won't want their teeth to stain anymore from smokeless tobacco. They could use a nicotine patch or gum if the doctor recommends it. They can substitute sunflower seeds, hard candy, fruit, or sugarless gum when they feel a need to have something in their mouth. They should breathe deeply or take a shower to relax. Smokeless tobacco users who quit can enjoy some obvious health benefits as well as the cash they can save by not purchasing smokeless tobacco anymore!

Smokeless Tobacco

Questions

- _____ 1. The term smokeless tobacco refers to:
- A. snuff, cigars
 - B. cigarettes, cigars
 - C. cigarettes, chewing tobacco
 - D. chewing and dipping tobacco and snuff

Name: _____

- _____ 2. Does more nicotine get into a person's body when he smokes a cigarette or uses smokeless tobacco?
- A. uses smokeless tobacco
 - B. smokes a cigarette

- _____ 3. Which smokeless tobacco is placed between the cheek and gum?
- A. dipping tobacco
 - B. snuff

4. Smokeless tobacco contains how many ingredients that are known to cause cancer?

5. Why do you think the image of baseball players using chewing tobacco promotes the idea to use the product?

6. Most people who use smokeless tobacco started before the age of _____.

7. Give one tip to a user of smokeless tobacco who would like to quit.

Reduce $\frac{16}{34}$ to its lowest terms.

$$8 + \frac{8}{9} + \frac{1}{10} =$$

$$3 + \frac{1}{9} - \frac{2}{3} =$$

If $y = -5$ and $w = 39$ then what is the value of t ?
 $6y - 14w + 4w = t$

$$3 \times 3 \times 3 = x^3$$

What is the value of x ?

In what quadrant would you find the point (12, 9)?

Name: _____

Following the Red Cross list, Alex and his family put together a first aid kit. They spent \$17.23 on bandages and pads, \$5.28 on antiseptic wipes, \$2.38 on gloves, \$4.32 for anti-bacterial ointment, \$2.84 for a cold pack, \$7.91 on scissors and tweezers, and \$3.50 for a face shield. How much did they spend in all?

Anne and Megan are planning a cookout for April Fool's Day. Anne went to Marko's Meats and purchased $3\frac{1}{4}$ pounds of ground beef for the hamburgers. Megan purchased $1\frac{1}{3}$ pounds of ground beef at Gary's Groceries. How much ground beef did the two girls purchase in all?

Hunter needs three new pairs of jeans for school. The kind he likes is on sale at Fantastic Finds for \$20.95 per pair. He found three pairs in his size and paid for them with a \$100 bill. How much change did he receive?

Ulalie C. Urchin bought three tickets for the floor show at a cost of \$7.90 each (sand dollars, of course!). He gave box office clerk \$50. How much change did Mr. Urchin get in return?

Rose told her father that she needed 94 inches of rope to make a double jump rope. He said that he needed to know how many feet of rope she wanted. Change 94 inches to feet.

Name: _____

Jason said that $\frac{4}{5}$ was bigger than $\frac{1}{2}$. What are two ways he could prove his statement correct?

Miss Garcia was making ice cream sodas. She needed $1\frac{1}{2}$ cups of soda for each one. With the amount of soda she had, she could make $8\frac{1}{2}$ ice cream sodas. How many cups of soda did she have?

The artist used 180 ml of red paint on the huge canvas. What fraction of a liter did he use?

On National Do Nothing Day, Mr. and Mrs. Hall played Monopoly all day. Mr. Hall won two of the first four games they played. At that rate, how many games will have been played when Mr. Hall wins his fourth game?

Sarah decided to make 6 dozen cookies for the Just Because Festival at her school. The recipe called for $\frac{1}{2}$ of a cup of chips for each cup of flour used. If Sarah uses $6\frac{1}{2}$ cups of flour, how many cups of chips will she need?

The equation $c + 144 = 257$ describes the number of children and adults at the Fish Tank Floor Show yesterday. If 144 is the number of adults that attended the show, then how many children were at the show?

Name: _____

That Takes A Lot of Nerve!

By Erin Horner

Your body is made up of several amazing parts. One such part is a bundle of long, thin threads called nerves. You have nerves all over your body. Your nerves help all of the systems in your body communicate with each other. Some nerves are called motor nerves. They help your body and muscles move. Others are called sensory nerves. They help you feel things. They also help your body respond to all that it feels. Imagine that one night at dinner, you reached up and grabbed a bowl of really hot soup. Once your fingers touched the scalding broth, you immediately pulled your hands away from the bowl. Your nerves helped you do this. The nerves in your skin sensed the heat from the bowl. These nerves then sent a message through your spinal cord to your brain. Your brain then sent a return message to your hand. This message told your muscles to jerk back because your nerves were sensing something painful. All of this communication happened faster than you could say "ouch!" Nerves are complex and coordinated communicators. They are also really cool (or hot, depending on what they sense)!



Nervous System

That Takes A Lot of Nerve!

Questions

1. What are nerves?

_____ 2. In this passage the word jerk means:

- A. a fun dance from the 1960s
- B. to pull someone
- C. a quick, sudden movement
- D. a person who is not very nice

_____ 3. Which of the following statements about nerves are true?

- A. Nerves help all of the body systems communicate with one another.
- B. There are sensory and motor nerves.
- C. Nerves are long, thin threads.
- D. All of the above

_____ 4. How is this passage organized?

- A. It tells how things are alike and different.
- B. It states a cause and then gives effects.
- C. It gives a series of steps in a process.
- D. It makes a statement and then gives reasons that it is true.

Name: _____

In a bag of Jolly Gems candy-coated chocolate pieces, 21% are red, 18% are blue, 8% are brown, 15% are yellow, and 21% are green. If there are 192 chocolate pieces in a bag, how many of them are yellow?

George the Glorious donated 14% of the money his magic shows made to the Home for Mature Magicians. Last year he donated \$11,200. How much money did his magic shows make last year?

Jessica got a summer job working on an app where people post pictures of their pets. This week they had 100,000 pictures posted. Of those pictures, 30% were dogs. How many pictures of dogs did they get this week?

What is 9% of 79?

Name: _____

Draw a line from START to END.

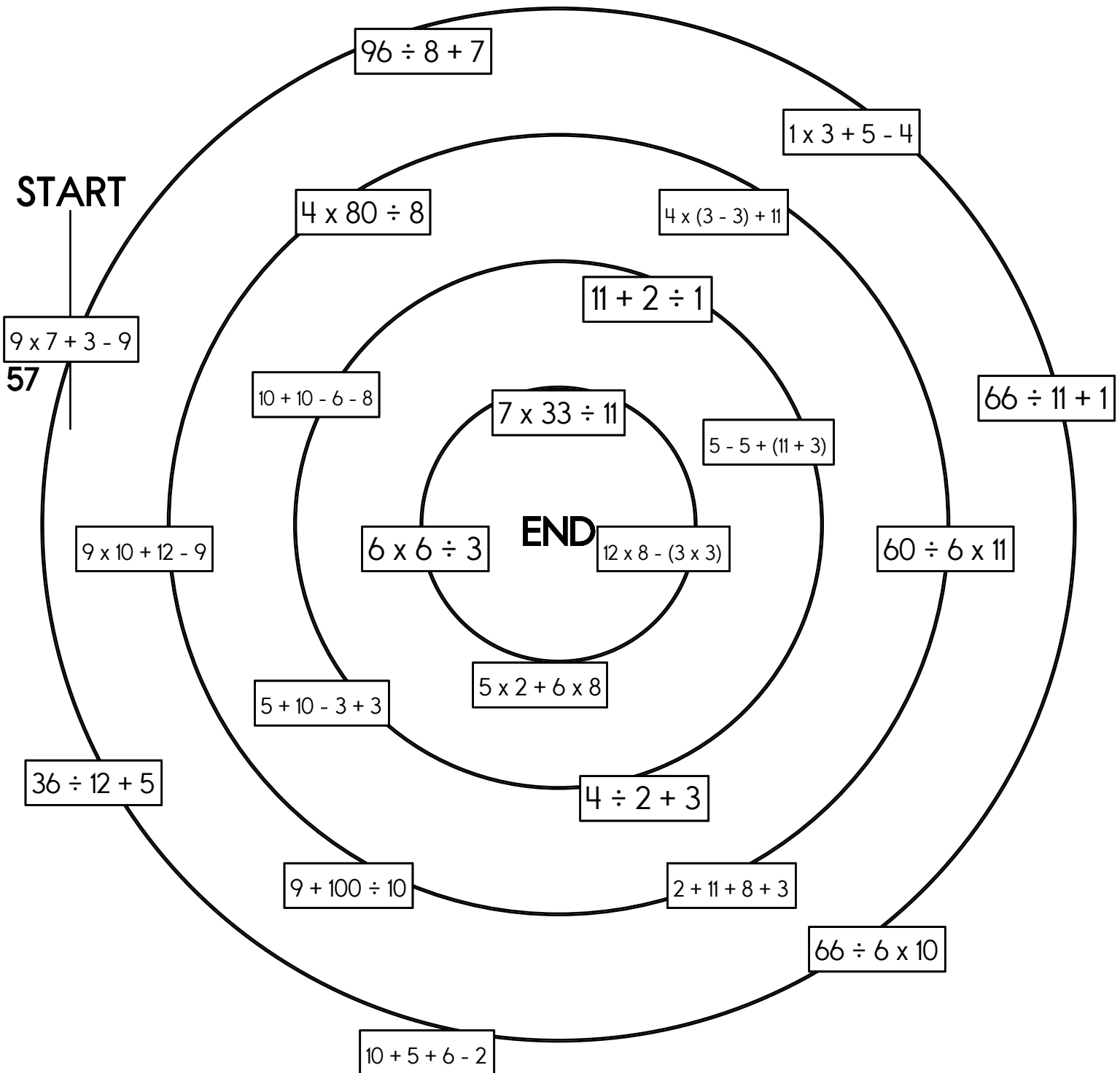
5

~~57~~

58

24

Cross out the number you use above and then write it below.



Name: _____

Qing Ming Festival

By Vickie Chao

Every year in early April (usually on the 5th, but sometimes on the 4th or 6th), the Chinese people will visit their ancestors' graves, tidy up the sites, and serve offerings. They call that designated day the Qing Ming Festival or Grave Sweeping Day.

Nobody knows for sure how the custom first started. Among the various accounts, one popular version goes like this.

A long time ago, there was a ruthless emperor who proclaimed himself as Shih Huangdi ("First Emperor" in Chinese) when he established the Qin dynasty (221 B.C. - 207 B.C.). Shih Huangdi ruled China with an iron fist. His fans say that he unified the writing system. He completed the construction of the Great Wall of China. And he fended off the advances of the Xiongnu, a northern nomadic tribe. His critics, however, say that he killed scholars, banned their thoughts, and burned their books. He forced people to build him extravagant palaces and a lavish tomb (complete with a terracotta army).

After Shih Huangdi died unexpectedly in 210 B.C., his second son forged a royal decree to kill the crowned prince so he himself could become the new emperor. Unfortunately for the Qin dynasty, the new emperor was not nearly as competent as his father. In no time, people from all corners started to revolt. Three years later, the Qin dynasty was over, and China fell into turmoil.

Among all the insurgents, two leaders -- Liu Bang and Xiang Yu -- stood out and began to wage wars against each other. They fought for five years. Eventually, Liu Bang eradicated Xiang Yu and emerged as the victor. He established the Western Han dynasty in 202 B.C.

Following the defeat of Xiang Yu, Liu Bang went back to his hometown. He wanted to visit his parents' graves and pay them respect. When he got there, he was stunned! The area, after years of on-going conflict, looked horrible. Tombstones were either broken or missing. Weeds were everywhere. Liu Bang searched the area thoroughly, but he just couldn't locate his parents' graves. As the daylight started to fade away, Liu Bang felt crushed. Refusing to give up, he took out a piece of paper and tore it into small pieces. He cupped the pieces tightly between his palms and prayed. He whispered, *"Dear parents, I am here to see you, but I can't find your graves. I am going to throw pieces of paper up to the sky. Please give me signs."*

Liu Bang threw the pieces of paper up to the sky and waited. As strong winds blew the pieces in all directions, there was one that landed firmly on the top of a tombstone not so far away. Liu Bang went to have a look. He read the inscriptions on the tombstone carefully and instantly recognized his parents' names! He was so happy! Right away, he ordered his soldiers to clear out the field, fix up the tombstone, and lay out offerings. Before he left, Liu Bang used a small rock to affix that miraculous piece of paper to his parents' new tombstone as a marker. He returned loyally year after year to pay them tribute.

Seeing him do that, other people quickly began to follow suit. Every year in early April, they visited their ancestors' graves and swept the area clean. They used small rocks to affix pieces of paper to the tombstones to show that these graves were being looked after!

The Chinese are very serious about the Qing Ming Festival because it is the day that they bestow respect upon their ancestors. Aside from marking the graves with pieces of paper, they light incense sticks and burn fake paper money, paper clothes, and other paper accessories. The Chinese believe that the world for the deceased is very much like the world for the living. Hence, they must provide their ancestors with all the necessities they need so they can live comfortably in their after-life.

Name: _____

Qing Ming Festival

Questions

- _____ 1. According to this myth, who started the Qing Ming Festival?
- A. Jie Zitui
 - B. Xiang Yu
 - C. Shih Huangdi
 - D. Liu Bang
- _____ 2. What dynasty did Liu Bang establish?
- A. Tang
 - B. Western Zhou
 - C. Western Han
 - D. Qin
- _____ 3. What do the Chinese do to show that they look after their ancestors' graves?
- A. They cover their ancestors' graves with rose petals.
 - B. They use small stones to affix pieces of paper to their ancestors' tombstones.
 - C. They advertise it in the newspaper.
 - D. They hang a sign on their ancestors' tombstones.
- _____ 4. What day does the Qing Ming Festival usually fall on?
- A. April 15th
 - B. April 5th
 - C. April 8th
 - D. April 3rd
- _____ 5. Why do the Chinese burn fake paper money on the Qing Ming Festival?
- A. because they believe that their ancestors need it
 - B. because they believe that burning fake money will bring in real money
 - C. because they believe that burning fake money will fend off the evil
 - D. because they want to cover a crime
- _____ 6. Who unified the writing system in China?
- A. Meng Tien
 - B. Xiang Yu
 - C. Liu Bang
 - D. Shih Huangdi
- _____ 7. The Qing Ming Festival and Grave Sweeping Day are two separate Chinese holidays.
- A. true
 - B. false
- _____ 8. How long did the Qin dynasty last?
- A. 10 years
 - B. 14 years
 - C. 19 years
 - D. 18 years

Name: _____

The height of one of the triangular sides of the Great Pyramid is approximately 481 ft. Its base is 756 ft long. What is the area of one of the sides?

Erin was bored. She found her little sister and offered to read a book to her. She read to her sister for an hour and 46 minutes. If Erin started reading at 3:27 p.m., what time did she stop reading?

Mrs. Taylor went to the Peanut Butter Lover's Month Bake Sale. She bought a peanut butter pie for \$4.53, 3 dozen peanut butter cookies for \$1.41 per dozen, and 12 peanut butter brownies for \$1.59 per dozen. How much did she spend in all?

Hannah made a cake for Parent's Day for her mother and father. She used $2\frac{3}{4}$ cups of flour, $\frac{1}{2}$ of a cup of sugar, $\frac{1}{3}$ of a cup of cocoa, and $\frac{1}{3}$ of a teaspoon of cinnamon. What is the total quantity of dry ingredients Hannah used in her cake?

Write this as a number in standard form.
Use a comma in your number.

seven hundred seventy thousand, four hundred forty

$$788 + 113 = \underline{\hspace{2cm}}$$

$$10 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$$

word root **hero** can mean **protect** **heroic**

Name: _____

How many meters are there in 83 kilometers?

Know how many inches in a foot? Okay, smarty pants, how many inches in 3 feet?

What 4 coins add up to 21 cents?

$\frac{1}{3}$, $\frac{2}{3}$, 1, $1\frac{1}{3}$, $1\frac{2}{3}$, 2,
 $2\frac{1}{3}$, $2\frac{2}{3}$, 3, $3\frac{1}{3}$,
 _____, 4, $4\frac{1}{3}$, $4\frac{2}{3}$,
 5, $5\frac{1}{3}$

Y, N, V, L, S, _____, P, H,
 M, F, J, D

77 divided by 7 equals

Simplify.

$$\frac{72}{81} =$$

90, 95, 100, 105, 110,
 _____, 120, 125, 130

$$0.15 \cdot 8 =$$

The letter V has an unknown value. If you multiply V by eight, the product is four. What value does V have?

$$8 \times 7 + 8 + 7 + 8$$

$$9 \times (88 \div 8) - 25 \div 5 =$$

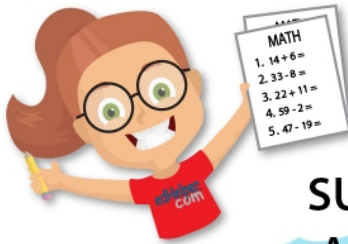
word root **liber** can mean **free**

liberty, liberate

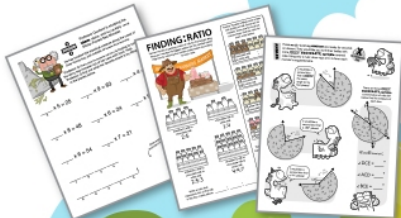
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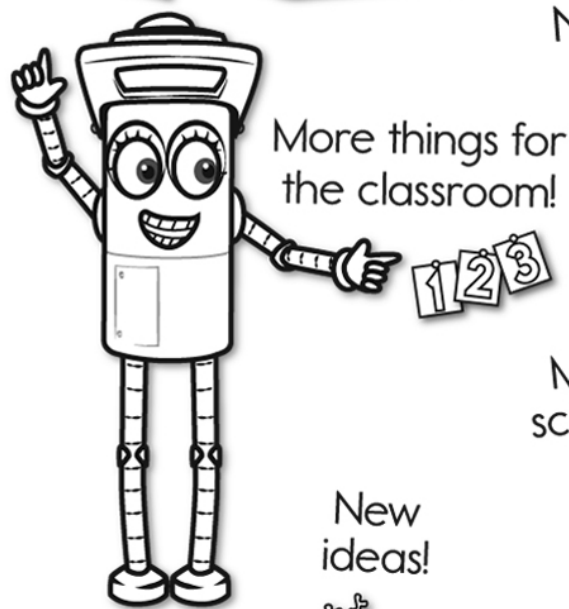
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