

Name: _____

What Is Energy?

By Patti Hutchison

Energy is defined as the ability to do work. Every living thing needs energy. Most of it comes from the sun. Plants are producers. They capture the sun's energy. They use it to grow and reproduce. Any energy that is not used by the plant is stored. Animals are consumers. They eat the plants to get energy for their own life processes. We need energy in order to be able to do anything.

What did you eat this morning? Did you have a bowl of cereal? A piece of toast? These foods are made from grains, which come from plants. When you eat them, you are consuming the energy the plants have stored from the sun. This energy is used by your body. It helps you to do work.

Solar energy flows through the food chain. The food chain is a diagram that shows how energy from the sun is used by producers. It also shows how this energy is transferred to consumers in an ecosystem.

There is energy all around us. What do we use it for? We use it to keep warm. We use it to power our vehicles. Did you ever stop to think of where this energy comes from? If you heat with wood, it comes from plants. Even fossil fuels such as gasoline come from decayed plants and animals. Where did they get this energy that we are now using? You guessed it - from the sun! Many forms of energy can be traced back to the sun, but there are also energy sources that do not come from the sun. These include geothermal energy, hydroelectric energy, nuclear energy, and wind energy.

Energy sources are natural resources. They can be renewable or nonrenewable. Solar energy is, of course, a renewable resource. The sun will keep sending solar energy our way for a few more billion years.

Energy from plants is also a renewable energy source. Trees are cut for firewood to heat our homes. New trees can be planted to replace the ones that are cut down. If our forests are managed in this way, we will have wood to use as energy for years to come.

Fossil fuels, on the other hand, took millions of years to form. It would take millions of years for them to form again. These are nonrenewable sources of energy. Some examples are coal, oil, and natural gas.

There is a scientific law that says that energy cannot be created or destroyed. However, it can change from one form to another. All types of energy can be categorized as either kinetic energy or potential energy. Potential energy is stored energy. Think of Niagara Falls. The water at the top of the falls has potential energy. Kinetic energy is the energy of motion. As the water falls over the cliff, the energy changes from potential to kinetic. Gasoline, made from oil, is stored in a tank below the ground. At this point, it has potential energy. When it is burned in a car engine, it makes the car move. Then it has kinetic energy.

We use energy to light our homes, power our machines and cars, keep us warm in the winter and cool in the summer, and much more. We use batteries, engines, electricity, and fire, as well as other energy sources. Each of these use different forms of energy. There are many different forms of energy, but they all have one thing in common - they have the ability to do work.



Name: _____

What Is Energy?

Questions

1. What is the definition of energy?

- _____ 2. Most of our energy comes from:

- A. automobiles
- B. the sun
- C. Niagara Falls

3. What is a food chain?

- _____ 4. Resources such as solar energy and wood are called:

- A. nonrenewable
- B. fossil fuels
- C. renewable

- _____ 5. Resources such as oil, natural gas, and coal are:

- A. nuclear energy
- B. nonrenewable
- C. renewable

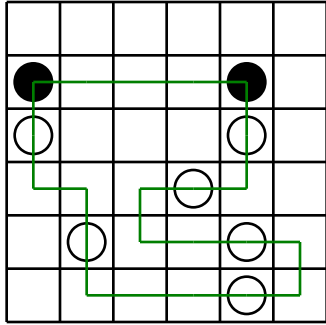
6. Name the two broad categories of energy.

$$2 \times 11 - (1 + 10)$$

$$9 \times 2 + 3$$

39, 52, 65, 78, 91, 104,
117, 130, _____, 156

Name: _____

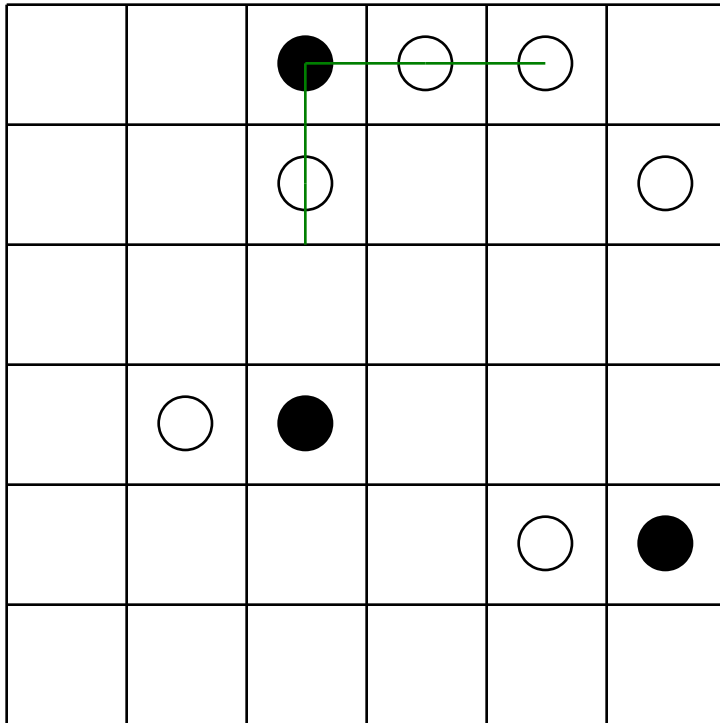


Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.

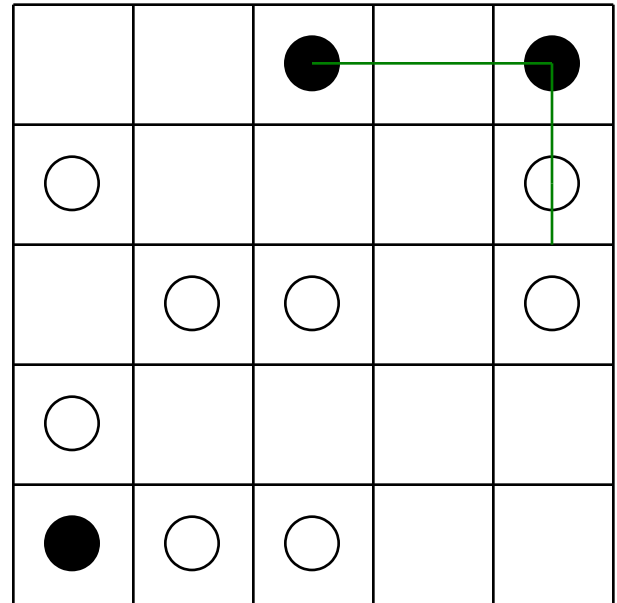
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

The puzzle on the left shows a correct line going through all the circles.

Finish the line:



Finish the line:



$12 \times 10 =$

$$\begin{array}{r} 698 \\ - 447 \\ \hline \end{array}$$

Insert a comma in the appropriate place in this sentence.

I wanted to go on vacation this summer but my parents are saving money for a down payment on a house.

$$\begin{array}{r} 211 \\ + 416 \\ \hline \end{array}$$

$32 \div 4 =$

How many yards are in 9 feet?

_____ yards

$$\begin{array}{r} 49 \\ + 24 \\ \hline \end{array}$$

Name: _____

Lords and Ladies

By Sharon Fabian

At the beginning of the Middle Ages, Europe wasn't divided into countries as it is today. Smaller areas were each controlled by the leader of the tribe that had conquered the area. Eventually, some tribal leaders became more powerful than others, and the land that they controlled became larger and larger. When their land became very large, it became known as a kingdom, and the tribal leader became known as the king.

It was too difficult for the king to oversee everything that went on in his kingdom. He needed help. So he subdivided his land into smaller parcels and named a ruler for each part. These rulers, who were next in charge after the king, were known as lords, and their wives were known as ladies.

This system of sharing the power worked out well for the lords and also for the king. The lords gained a large piece of land, known as a fief, and the power to rule it. The king, in return, received a pledge of loyalty from his lords. This method of ruling the land and its people became known as the feudal system.

Under the feudal system, every lord pledged loyalty, or homage, to the king. He agreed to always support the king; he agreed to provide troops of knights ready to fight when needed; and he promised to do a good job of governing his part of the kingdom.

These pledges put a lot of responsibility on the shoulders of the lords.

Having a large group of knights ready to fight at all times was a big job. The knights had to be trained, and they had to stay in practice. Their horses and equipment had to be kept ready. The lord was in charge of overseeing all of these activities.

Governing his estate was also a big job. Many peasants worked on the land. Many more worked in the shops and in the lord's castle. The lord was the manager of it all. He had to make sure that everything got done and that all of the people were taken care of.

Sometimes problems arose on the estate. Then, the lord acted as a judge, holding court to settle the disputes.

When the king called, the lord had to drop everything else and go to serve his king. When this happened, his wife, the lady of the castle, stepped in to manage the estate. She governed while the lord was away.

The lady of the castle had other duties too. She cared for her children and taught them while they were very young. Sometimes she oversaw the care and education of children from other noble families who were sent to stay on her estate. She entertained guests when they came to stay at the castle. She also was in charge of the household at all times, managing the kitchen, the meals, and the family accounts. Some ladies were even called on to lead their subjects in defending the castle if it was attacked while the lord was away.

The children of the lord and the lady had a much different life than children today. Often, they were sent away to another castle to be educated. Children were not expected to stay at home and be spoiled after the first few years of their life. They had to be educated and learn to deal with the world early on, because childhood lasted only a short time in medieval society. Many children were already engaged to be married before their teenage years. Most were married by the age of twelve to fourteen. Once they were married, it was time to take on adult responsibilities. Since the fiefs were passed down from fathers to sons, the boys would one day soon be rulers of their own land. The girls would marry the sons of other nobles and become the ladies of their own castles.

The feudal system lasted throughout the Middle Ages. Under this system, the peasants could feel a little bit safer within the walls of their lord's castle, and the king could feel a little bit safer too with his lords and knights always at the ready. In an uncertain time like the Middle Ages, the feudal system provided some welcome security.

Name: _____

Lords and Ladies

Questions

- _____ 1. The ruler of a feudal estate was known as a _____.
A. king
B. knight
C. lord
D. none of the above
- _____ 2. The wife of a lord was known as a _____.
A. duchess
B. queen
C. lady
D. princess
- _____ 3. Lords had to pledge loyalty to _____.
A. their wife
B. their children
C. the king
D. their knights
- _____ 4. Lords would leave their estate whenever _____.
A. invaders attacked their castle
B. they went to school
C. the king called for them
D. they needed to buy supplies
- _____ 5. Children of lords and ladies were often educated _____.
A. at local schools
B. with the peasant children
C. at home
D. at another castle
- _____ 6. Kings appointed lords because _____.
A. they needed help ruling a large kingdom
B. they needed help when they were away
C. lords could rule better than the king could
D. they wanted to share their land
- _____ 7. _____ was/were in charge of managing the household of the castle.
A. the sons
B. the daughters
C. the lord
D. the lady
- _____ 8. According to the information in this article, you can infer that feudalism continued after the Middle Ages.
A. false
B. true

Name: _____

Jessica used a rectangular glass container to make a terrarium on Quiet Day. The container is 3 feet x 1.2 feet x $\frac{1}{4}$ feet. She will fill $\frac{1}{4}$ of it with dirt. How many cubic feet of dirt will she need?

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?

Sally bought a kit to make fidgets. The box says that you can make up to 36 fidgets. Sally tried to make one. It took her 44 seconds to make. How many fidgets can she make in an hour? Assume she takes a 10-second break after making each fidget.

Fill in the missing numbers.

$$0.6472 \times \underline{\hspace{2cm}} = 647.2$$

$$0.06472 \times \underline{\hspace{2cm}} = 647.2$$

$$64.72 \times \underline{\hspace{2cm}} = 647.2$$

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Complete each pattern. Write what the rule is.

8	16	32	64	128	256
9	45	225	1,125	5,625	
3	12	48	192		3,072
1	6		216		7,776

Complete each pattern. Write what the rule is for each pattern.

(512) , (64) ,

(8) , (1) ,

 $\frac{1}{8}$, $\frac{1}{64}$, $\frac{1}{512}$, $\frac{1}{4096}$, _____

(1,679,616) , (279,936) , (46,656) ,

(7,776) , (1,296) , (216) , (36) ,

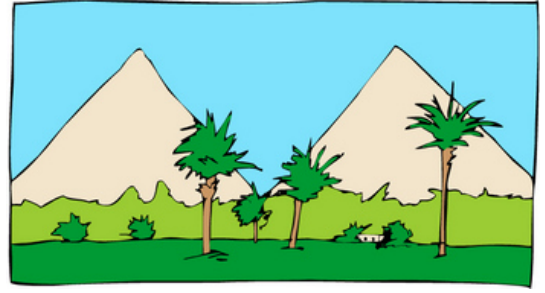
(6) , (1) , _____

Name: _____

Long Ago in Ancient Egypt

By Cindy Grigg

Long ago, people lived in Egypt. People have lived there for more than five thousand years! The Nile River flows in Egypt. It flows from south to north. The Nile was vital to the people of Ancient Egypt. They could not have lived there without it. The river brought water to this desert land. It gave the people water to drink. It gave them fish to eat. It gave them a way to travel. The Nile had floods every year. The floods left behind rich, black soil. This soil was very fertile. Plants grew well in this soil. The river gave the people a way to grow food. Great cities grew up along the Nile. Kings called pharaohs ruled the land for three thousand years. They built pyramids. They made mummies. All this happened long ago in Ancient Egypt.



Long Ago in Ancient Egypt

Questions

- _____ 1. How long have people lived in Egypt?
- A. five million years
 - B. 50 years
 - C. 500 years
 - D. 5,000 years
- _____ 2. The Nile was vital to the people of Ancient Egypt. Which of the answer choices is a supporting fact for this statement?
- A. The river brought water to this desert land.
 - B. The Nile flooded every year.
 - C. Great cities were built along the Nile.
3. The rich, black soil of the Nile River was very _____.

- _____ 4. Which of these is NOT something from Ancient Egypt?
- A. Elmo
 - B. mummy
 - C. pyramid
 - D. pharaoh

$$-4 - 3 - 2 =$$

$$2 - 4 - 1 =$$

$$-8 \times -11 =$$

Name: _____

Kevin bought a book of memoirs written by soldiers that served during World War I. The book usually cost \$22.95. Kevin had a coupon for a 10% discount. With the discount, how much did Kevin pay for the book, including 5% sales tax?

The mass of Rosa's cat is 16 grams more than Emma's cat. Ava's cat is 44 grams more than twice the mass of Emma's cat. Emma's cat's mass is 1,370 grams. What is the mass of Ava's cat?

Amy needs to make 42 sugar cookies for a big party, but her favorite recipe is only for 14 cookies. The recipe calls for $1\frac{3}{4}$ cups of sugar. How much sugar will she need to use?

Jessica likes to run. She started using a running app on her phone in May. During the month, she ran an average of 1.5 miles per day. How many miles did she run for the entire month?

Name: _____

Connor needs 20 inches of ribbon for each package he wraps. He has 10 packages to wrap. How much ribbon does he need? (Write your answer in feet and inches.)

Mrs. Clark asked her students to write about Charles Lindbergh. There are 25 students in her class. Two-fifths did not do the writing. How many students did write about Lindbergh?

April made a huge sugar cookie 15 inches x 12 inches. She decorated it with red, white, and blue sugar to look like an American flag. She cut it into 2 inch x 3 inch pieces. How many pieces could be cut from the huge sugar cookie?

Know how many inches in a foot? Okay, smarty pants, how many inches in 8 feet?

A toy car can go 3 mph. How long would it take to go 11 miles?

88 divided by 8 equals

It was Emily's turn to milk the two cows. She started milking them at 5:16 a.m. and finished at 7:02 a.m. How long did it take her to milk the two cows?

When Jack got married he was 30 years old. His sister was two-thirds his age plus 2 years. Their father was twice Jack's age plus 4 years. Jack's father was how many years older than his sister when he got married?

David and Hunter went on a hike and got lost in the woods. They left on the hike at 9:44 a.m. and didn't get back until 6:15 p.m. How long were they gone on the hike?

Name: _____

Gavin spent \$2.62 on a birthday card, \$5.54 on some chocolate and \$17.39 on a present. How much did he spend in all?

If you had a score of 84 on the first science test and a score of 96 on the second one, by how many points did your score improve?

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?

Connor measured a small stick with his ruler. It was a metric ruler divided into millimeters. He found that the stick was 51-units long. (A unit being the smallest division on his ruler.) How many centimeters long was the stick?

Alex had 45 minutes in the morning to practice guitar and about twice that much time in the afternoon. How much time in a day did Alex have available for practicing guitar?

Mr. and Mrs. Brown donated \$24.75 to the Red Cross every month last year. What was the total of their donations for the year?

If a die is rolled 11,500 times, according to theoretical probability, how many times should an even number come up?

Beatrix Potter was born in 1866. Write the prime factorization of the year of her birth.

Nathan was left with a result of 44 after he multiplied a number by 2 and subtracted 21. What number did he start with?

Name: _____

According to one estimate, last year 1.6 million people participated in a total of 16,000 observances of the National Day of Prayer. If each person participated in only one observance, what was the average number of people participating in each observance?

David uses a copy card at the local copy shop to make copies of the stories he writes before he sends them to magazine editors. Yesterday he made 30 copies, and today he made 28 copies. Using the card, each copy costs \$0.05. How much was the value of his copy card reduced by during the past two days?

Hannah spends four hours per day on weekends playing video games. What fraction of the weekend does she spend playing video games?

The temperature in Magadan, Russia, is 5 degrees Centigrade. Use the conversion formula $F = (9/5) \text{ times } (C) + 32$ (the degrees in Centigrade) plus 32 to calculate the temperature in Magadan in degrees Fahrenheit. Round your answer to the nearest degree.

It has been calculated that a mako shark travels as fast as 35.2 km/h before leaping out of the water. If it could maintain $\frac{1}{4}$ this speed underwater for 15 hours, how far could it travel?

Justin was working in the kitchen. He mixed 4.1 lbs of flour and 6 ounces of sugar. How many ounces of ingredients did he have after mixing?

A 2-pound can of coffee will make how many cups of coffee if each cup requires $\frac{1}{14}$ of an ounce of coffee?

The Jiffy Dairy delivered 191 gallons, 61 quarts, and 19 pints of dairy products yesterday. How many ounces of dairy products did the company deliver?

Name: _____

Snails and Slugs

By Cindy Grigg

You go out your back door and see a tiny, shiny trail on the ground. What animal made that? It was most likely made by a snail or slug. Snails and slugs are **mollusks**. These are animals with soft bodies. They are also **invertebrates**, a group of animals that do not have a backbone.

Snails and slugs have long, moist bodies. Some snails live on land. Some live in freshwater. Some snails live in the ocean. Slugs, too, live on land and in water. A land snail that you might see in your yard has a coiled shell on its back. A snail can pull its body into its shell. Slugs are like snails without shells.



Snails and slugs move by creeping on a false "foot," or **pseudopod** (SUE-duh-pod), on the bottom of their bodies. Their bodies make mucous or "slime." It comes out in front of the pseudopod. It makes a slippery, moist track for the snail to move along. When the slime track dries, it makes that shiny trail you might see at your house.

Snails eat leaves and fruit by scraping them with their **radula**, or tongue. The radula is very rough. It has tiny hooks that rip pieces off the food. Some snails eat decaying plant matter. Some slugs are predators. They may eat other slugs or earthworms.

The eyes of slugs and snails are on the tips of two stalks or **tentacles** on the top of the head. A shorter pair of tentacles lets snails and slugs smell things. If one of the tentacles is broken off, a new one can be re-grown. Snails and slugs are intriguing animals. Are you interested in snails and slugs?

Snails and Slugs

Questions

1. Slugs and snails are in the group of animals called _____.

- _____ 2. What is the radula?

A. the false foot that lets snails and slugs move
 B. the stalk on top of the slug or snail's head
 C. the tongue with which the snail or slug eats
 D. the bottom of the snail or slug's body

- _____ 3. What is the best meaning for the word "intriguing" in the last paragraph?

A. interesting
 B. shelled
 C. false
 D. slimy

Name: _____

4. How are snails and slugs **not** alike?

_____ 5. Where are the eyes of snails and slugs located?

- A. on the false foot
- B. on the front of the head
- C. on tentacles on top of the head
- D. on their shells

The radius of a circle is 706 cm. What is the diameter of this circle?

Round 84,755 to the nearest hundred.

How much time is it from 6:00 a.m. to 11:25 a.m.?

Round 11,609 to the nearest thousand.

$41 + n = 58$

Write $\frac{4}{20}$ in lowest terms.

5, 1, 1, 4, 4, A, 5, 1, 1,
4, 4, _____, 5, 1, 1, 4,
4




















F, L, G, M, H, N,
_____, O, J, P

8547, 5478, 4785,
_____, 8547, 5478,
4785, 7854, 8547, 5478,
4785, 7854, 8547, 5478

Circle the word that is a synonym for the word <u>awkward</u> . clever, elegant, clumsy, graceful	$12 \times 9 =$	1 cm = 10 mm 24 cm = _____ mm
--	-----------------	----------------------------------

Name: _____


Puzzle:


				8	33
			8	8	22
					44
				8	33
	8		8		33
27	28	36	42	32	+


Work Area:


				8	33
			8	8	22
					44
				8	33
	8		8		33
27	28	36	42	32	+

The sum for each column
and row is given.

















 = _____

 = _____

 = _____

 = _____


Puzzle:

				46
				45
				34
				16
24	42	37	38	+


Work Area:


				46
				45
				34
				16
24	42	37	38	+


The sum for each column
and row is given.

 = _____

 = _____

 = _____

 = _____

 = _____

 = _____

Name: _____

Leaving Pleasantville

By Brenda B. Covert

"Why does everything happen to me?"

Reva Alden's world had come crashing down. Still reeling from her parents' divorce, she had taken another hard blow with her mother's latest announcement.

"We're moving."

Their house was up for sale, so Reva had known that they would have to move. She thought they would get a smaller house or an apartment somewhere in Pleasantville where all their friends and Reva's father lived. But, no. This move would take them 500 miles away from everything Reva had ever known! Worse yet, there was no chance of her mother and father getting back together with such a great distance between them.



"Your great-grandmother went to live in a nursing home, and her house is standing empty," Mrs. Alden told her grieving daughter. "We can live there for free and take care of the place. Grandma will feel better knowing we are taking care of her home." She paused while Reva complained. Then she took a deep breath and sternly said, "I can't afford anything else. Your father doesn't make enough money at his new job to make our house payment and pay the rent for his apartment, and I can't afford it by myself." Tears formed suddenly in her eyes. "I'm doing the best I can!"

Stunned, Reva waited until her mother hurried to her own bedroom and shut the door before she beat her pillow with her fist. "It's not fair!" she cried. There was a great big ache where her heart used to be. "It's not fair!" Hot tears streamed down her face, making her eyes swollen and her skin damp and itchy. Reva felt all alone in the world. She hated her parents. Everything was wrong, and it was all their fault. She would never be happy again.

Two weeks later, Reva was arranging her things in a small bedroom of an old house in a small town. She resented her father for causing them to move. She resented her mother for not trying harder to find a way to stay in Pleasantville. "I will never forgive them," she told herself as she arranged her collection of blue beanbag animals on her dresser. She stroked the blue seal that her best friend, Caitlin, had given her as a goodbye present. "Never."

She kept that promise. She hardly spoke to her mother. She refused to say much when her father called. She would make them suffer for what they had done. They would be sorry for ruining her life.

As for her new school, Reva didn't give it a chance, either. She didn't want to be there, and she didn't care who knew it. She ate alone at lunch, and she refused to join the band even though she had played the clarinet at her old school.

One day about two weeks after the move, an odd thing happened. The most popular girl in Reva's class, Sara Ann Miller, began to befriend her.

"Great outfit," Sara said with a friendly smile as they stood at the pencil sharpener.

"Great shot!" she called during gym class when Reva sank a basket from the free throw line.

"You're a true artist," she said enthusiastically after she saw Reva's drawing of a cardinal in art class.

"I love that book," Sara said in passing during a visit to the school library. "You've made a good choice."

Had Sara lost a bet? She couldn't really want to be Reva's friend. She should have eaten her lunch with her other friends, Shannon, Alyssa, and Melina. Why was she slipping into a seat at Reva's lonely table?

Name: _____

Sara eyed Reva's sandwich; it was egg salad on potato bread. "That looks tasty," she said as she opened her lunch bag and drew out a turkey on whole wheat sandwich, followed by tortilla chips and a small container of salsa. "Would you like to share my chips and salsa? I have plenty."

Reva considered the offer carefully. "Thanks," she said at last.

For a while they ate in silence.

Finally Sara leaned forward with her elbows on the table. "So what's your story?" she asked.

Reva swallowed a mouthful of egg salad. "Wh-what?"

"You just moved here, and since you don't sound like us, you must have come from another part of the country," Sara said in a matter-of-fact tone of voice. "You keep to yourself, but you're not shy; you don't act awkward and blush when someone speaks to you. It's obvious that you don't want to be here. So what's the story?"

Reva was speechless for a brief moment. Then she rolled her eyes and sighed. "Okay, here it is. My parents broke up, my Mom forced me to move up here, I miss my friends, and I want to go home. Are you happy now?"

Sara nodded as if she understood. "I thought so," she said. "You know, the same thing happened to me."

"Are you serious?"

"Yeah. My parents used to fight all the time. It tore me up inside, but when they decided to get a divorce I still couldn't believe it! Then my mother started looking for a teaching job, and she found one here, so we moved. That was around two years ago." Sara shrugged and gave Reva a lopsided smile. "I know how you feel."

"Who needs parents, anyway?" Reva said bitterly. "Life would be so much better without them."

Sara shook her head. "You're going to have to forgive them, you know." Reva stared like she thought Sara was crazy, so Sara explained herself. "Parents are human; they make mistakes. We make mistakes too. If we expect to be forgiven for our mistakes, we have to forgive others just the same." Reva opened her mouth to argue, but Sara stopped her. "Did they intend to hurt you? Is your family's goal in life to make you miserable?"

Reva looked away, and then she shook her head.

"It would be wonderful if life were perfect, but it's not," Sara said. "The only way to find happiness is to let go of your anger and bitterness and to forgive the people who hurt you. You're not hurting your parents as much as you are hurting yourself." Sara leaned in close. "Believe me, it's not worth it. You need to forgive your mom and dad and accept that this is where you are now. Then you can start enjoying life again."

Reva didn't know whether to laugh or cry. "Thanks," she said quietly. "You've given me a lot to think about."

Leaving Pleasantville

Questions

- _____ 1. What is the theme of this story?
- A. Hope
 - B. Forgiveness
 - C. Moving
 - D. Revenge

Name: _____

- _____ 2. From what point of view is this story told?
- A. third person
 - B. narrator
 - C. first person
 - D. second person
- _____ 3. Which word best describes Reva Alden?
- A. determined
 - B. dejected
 - C. delighted
 - D. dependable
- _____ 4. Why did Sara Ann Miller show friendship to Reva?
- A. She had a disagreement with her other friends.
 - B. Her teacher probably made her do it.
 - C. She felt they had something in common.
 - D. She lost a bet.
- _____ 5. Why was Reva suspicious of Sara's friendly overtures?
- A. Sara was too popular to care about the new kid.
 - B. Reva's cheerless behavior did not invite friendship.
 - C. Nobody is that kind.
 - D. Everyone was looking at them.
- _____ 6. Which of these is most likely to happen next?
- A. Sara leaves Reva alone with her thoughts.
 - B. Sara's friends make fun of Reva.
 - C. Sara yells, "Psyche!"
 - D. Reva offers to do Sara's homework.
7. In your opinion, will Reva forgive her parents?

8. Do you have trouble forgiving those you believe have wronged you?

$$4\frac{2}{5} + 7\frac{2}{5}$$

Round the decimal 0.765 to the nearest hundredth.

How many meters are there in 16 kilometers?

Name: _____

Sara made a card for her parents to tell them she was sorry for not cleaning up the kitchen like she had promised. It took her 43 minutes to make the card and write what she wanted. If she started at 1:47 p.m., what time did she finish?

Mom and Dad were so embarrassing! They had seen David at the mall and Mom had actually come up and hugged him! All his friends had seen it, too! Well, he supposed it was good to have loving parents, even if they were embarrassing. While he was at the mall David bought a shirt for \$28.95, a pair of shoes for \$55.99, socks for \$3.45, and a pair of jeans for \$37.95. What was the total cost of David's purchases including 5% sales tax?

Alex stormed out of the house yelling, "I will never forgive you! Never! Never! Never!" He was so angry with his parents. They would not let him buy a drum set. They wanted him to take lessons first. Just because he hadn't played drums before didn't mean he didn't know how! Well, he would show them. He would run away. An hour later he was hungry and the lessons didn't seem such a bad idea after all. Well, he would forgive his parents and take the lessons. If the lessons cost \$35 per session and he signed up for twenty-three sessions, what would be the total cost of the lessons?

According to a recent survey, 6th graders listed five things for which they would have trouble forgiving their parents: moving to another city, 95%; embarrassing them in public, 65%; grounding them, 48%; taking away their telephone privileges, and trying to choose their friends, 89%. Express these figures in a simple bar graph.

Name: _____

The students in Ms. Wilson's class bought a dish garden for her. They gave it to her on the first day of Teacher Appreciation Week. They had worked on the dish garden together. It had taken 4 hours and 20 minutes to make the dish and paint it. It had taken 1 hour and 36 minutes to buy the plants and put them in the dish garden just right. It took another 31 minutes for all the students to sign the card. How long had it taken in all to get the gift ready?

Connor was chosen to tell Aesop's "The Ant and the Grasshopper" to a group of first grade students. He decided to make posters to go with the story. He decided he would need four different pictures. He bought 4 sheets of poster board at \$0.97 per sheet, 5 markers at \$0.81 each, and 4 packages of construction paper at \$1.20 per package. How much did he spend in all?

How many centimeters in 6.4 meters?

42, _____, 48, 51, 54,
57, 60, 63, 66

What is the area of a rectangle with sides 4 cm and 9 cm?

Miss Miller is going to six Mardi Gras parties. She bought a different feather mask for each party. The costs were \$16.99, \$10.81, \$11.92, \$10.98, \$12.88, and \$15.97. What is the average cost of the masks?

The mass of Rosa's cat is 19 grams more than Megan's cat. Emma's cat is 45 grams more than twice the mass of Megan's cat. Megan's cat's mass is 1,436 grams. What is the mass of Emma's cat?

During the Alexander Graham Bell Day celebration in his hometown in Scotland, 584 people paid \$4.50 each to see an exhibit of his inventions. How much money was paid in all?

Name: _____

"Justin, I like your rad new car," says Billy.

"Thanks! I'm taking my first long distance ride next week to Wamporan's World. It's about 350 miles away but I have no idea how long it will take!" says Justin.

"Wow! I heard about their new roller coaster," says Billy.

"Sorry to interrupt guys, but can't you just divide 350 miles by how fast you go?" asks Jen.

"For sure," says Billy. "Of course, I'll probably need to stop once for gas. That may take 10 minutes or so. And once to eat lunch. Maybe 20 minutes for that."

"I'm looking at my map app. It says it should take 8 hours. No idea how it figured that out!" replies Jen.

Billy wakes up the next day at 8:30. He gets ready and leaves for the trip at 9:15. What time do you think he will arrive at Wamporan's World?

Show your work.

Name: _____

Igneous Rock

By Meg Leonard

Caption: Scoria, a type of igneous rock, forms when lava cools quickly above ground.

There are different types of rocks. One type is igneous rock. This type of rock can form either above or below ground. They are called fire rocks. This is because they form from melted rock. When melted rock is below ground, it is called magma. Igneous rocks can form underground when a pocket of magma cools. When melted rock is above ground, it is called lava. Igneous rock can also form above ground as lava cools after a volcano erupts. Granite is one type of igneous rock. Granite is very hard. It is used for structures that need to last a long time. Monuments can be made of granite. Granite can also be very beautiful and is sometimes used as a decorative feature.

Pumice is another igneous rock. It is really a type of glass instead of crystallized minerals. It is very soft. It can be ground up and used in cleaning products. It can also be used for landscaping. Obsidian is a type of glass, too. It forms when lava cools quickly on the surface of the Earth. Obsidian has a shiny surface. Scoria is a rock that is made up of glassy bits. It has large pockets that formed where air used to be. Scoria is not shiny. These different types of rocks have different traits, yet they are all formed from melted rock.



Igneous Rock

Questions

- _____ 1. What makes igneous rocks?
 - A. sand
 - B. layers of dirt
 - C. melted rock
 - D. fossils

- _____ 2. What is another name for igneous rock?
 - A. wind rock
 - B. water rock
 - C. fire rock
 - D. air rock

- _____ 3. What is the name for melted rock below ground?
 - A. magma
 - B. lava
 - C. obsidian
 - D. granite

- _____ 4. Which of these is NOT a type of igneous rock?
 - A. granite
 - B. sandstone
 - C. pumice
 - D. scoria

Name: _____

5. How does igneous rock form below ground?

What is the greatest common factor of 28 and 10?

$$y + 19 = 30$$

What is the least common multiple of 6 and 8?

How much time is it from 7:00 a.m. to 10:20 a.m.?

$$1 + 6 - 6 + 5$$

What is the area of a rectangle with sides 4 cm and 10 cm?

How many meters are there in 126 kilometers?

What 6 coins add up to 71 cents?

Round 86,326 to the nearest hundred.

15, 17, 19, 21, 23, 25, 27,
_____, 31, 33

Write $\frac{4}{8}$ in lowest terms.

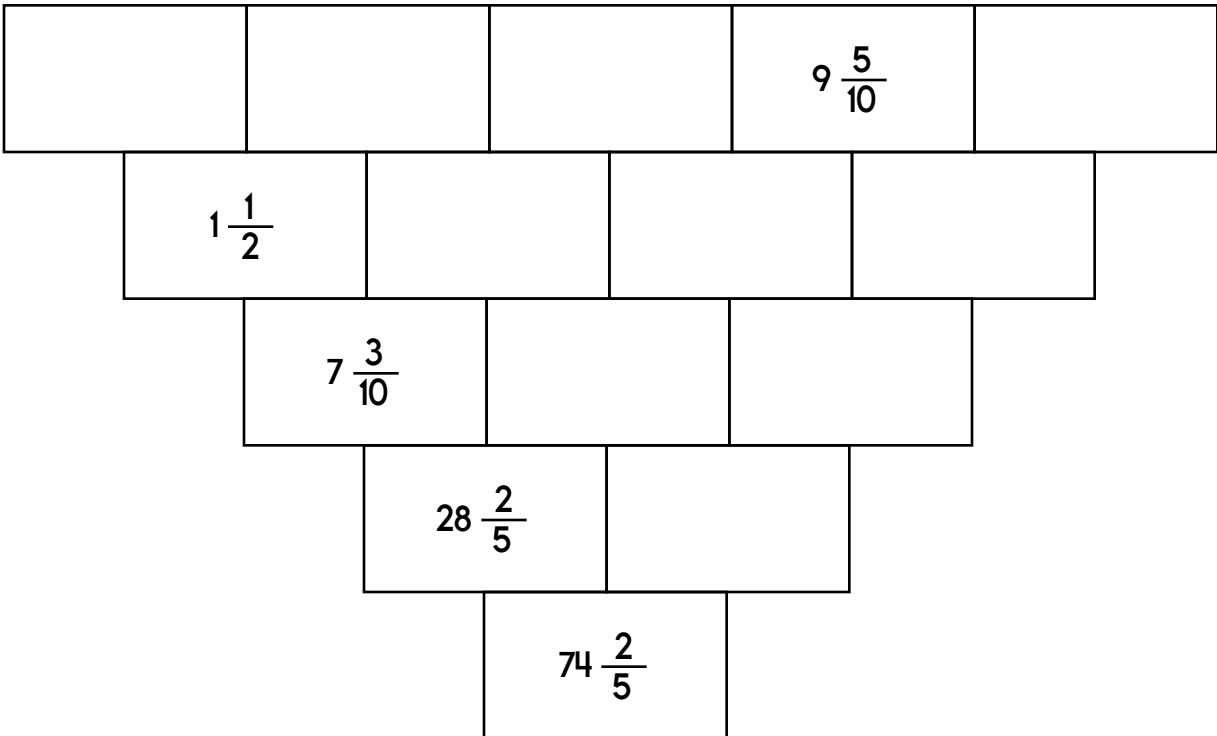
Know how many inches in a foot? Okay, smarty pants, how many inches in 7 feet?

Insert a comma in the appropriate place in this sentence.

Jenn was going to move over the summer but her mother got a new job.

8 lb = _____ oz

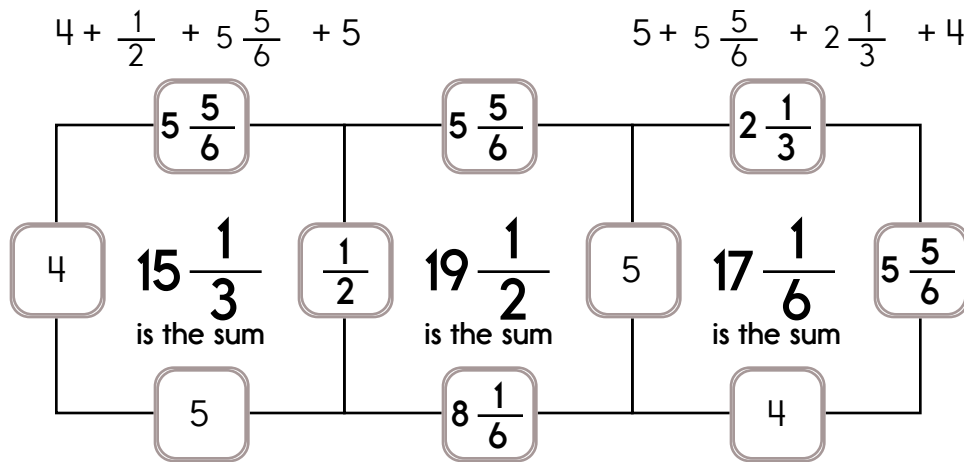


[illegible]

Name: _____

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

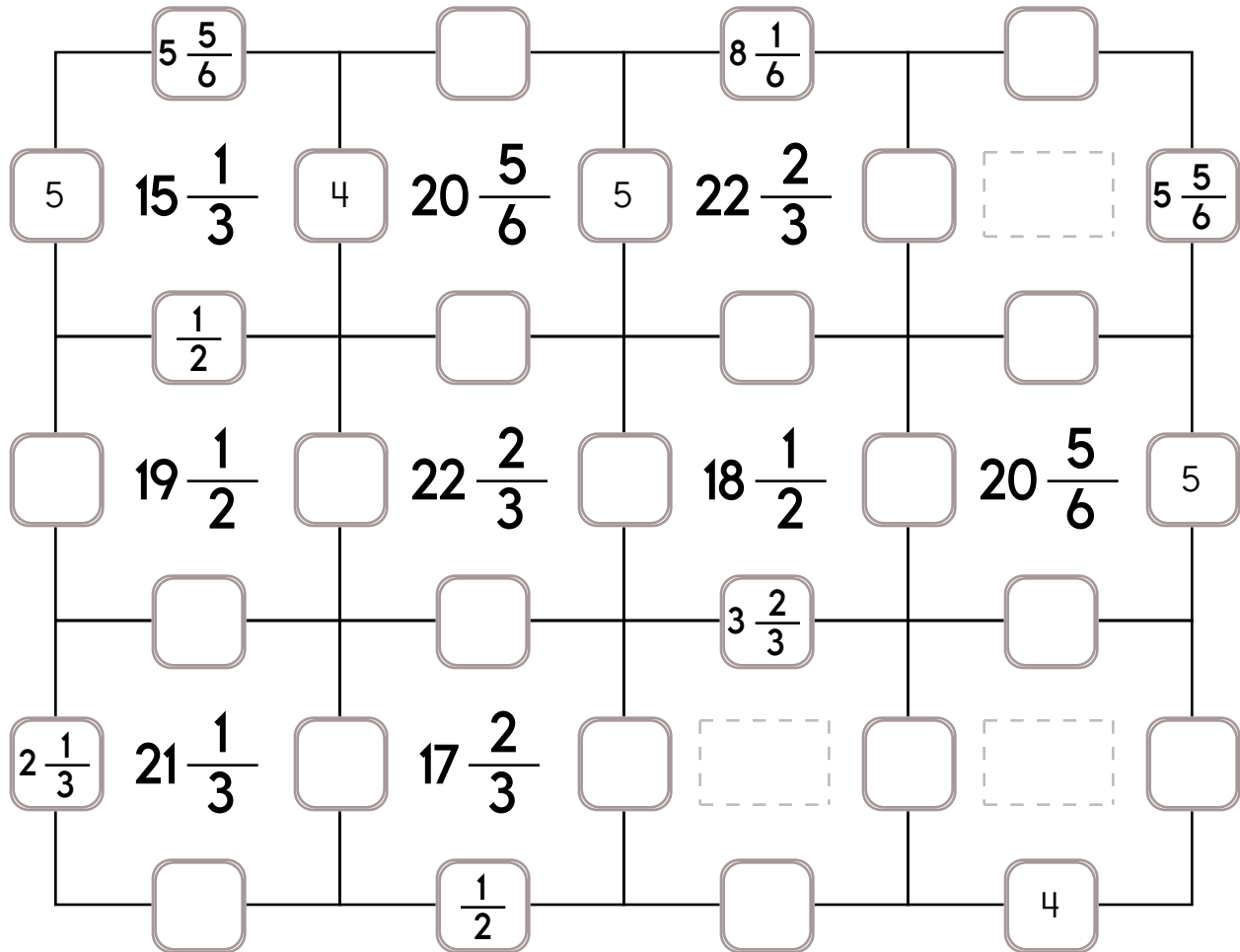
Sample:



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: $3\frac{2}{3}$, $\frac{1}{2}$, or $2\frac{1}{3}$.

The other three numbers have to all be DIFFERENT and must be from these: 5, 4, $5\frac{5}{6}$, or $8\frac{1}{6}$.



Exactly one of the four numbers has to be one of these numbers: $6\frac{1}{2}$, $1\frac{1}{4}$, or $8\frac{1}{6}$.

The other three numbers have to all be DIFFERENT and must be from these: $2\frac{3}{4}$, $3\frac{1}{2}$, 10, or 9.

A 9x8 grid of boxes connected by horizontal and vertical lines. The boxes contain various numbers and fractions. Some boxes are empty, and two are dashed.

$1\frac{1}{4}$	10	$3\frac{1}{2}$					
10	$23\frac{3}{4}$	9	$29\frac{11}{12}$		$30\frac{2}{3}$		$16\frac{1}{2}$
	$3\frac{1}{2}$						
			$21\frac{3}{4}$	$3\frac{1}{2}$	$17\frac{1}{2}$		$23\frac{3}{4}$
							10
	$22\frac{3}{4}$		$21\frac{3}{4}$		$22\frac{3}{4}$		$21\frac{3}{4}$
	29		$21\frac{3}{4}$		$29\frac{11}{12}$		$23\frac{5}{12}$
	$23\frac{5}{12}$		29				

Name: _____

Bullying

By Jennifer Kenny

Have you ever been bullied? Have you ever been the bully? Most children have been a part of a bullying situation at some point.

What exactly is bullying? Bullying is when an individual is mean and hurtful toward another over and over again. Unfortunately, bullying is widespread, and there are many types of bullying. There's physical bullying, which means the bully kicks, bites, pinches, and does other physically harmful things. There's verbal bullying, which includes name calling and mocking others. There's emotional bullying which isolates and excludes others. Nowadays, there's even cyber bullying. With all the technology available, it's easy for a bully to harass others with hurtful images or messages all the time. In general, whatever the type of bullying, girls tend to be more psychological when bullying while boys tend to be more physical about it.



Why do some kids bully others? Many times they've been picked on by someone else. They know what it's like to have been bullied. They would like to feel powerful and in control. It may be a way to handle his or her own difficult situation. Bullies like to pick victims that are not likely to fight back. Parents and school officials need to prevent bullying. They also need to get to the root of the bully's problems to change the bully's ways. Bullying can't be tolerated. Almost twenty-five percent of bullies become criminals.

What are the signs that a child is being bullied? Bumps and bruises are obvious signs. Of course, when a child is suddenly worried about school or getting mysterious stomachaches, that's a sign, too. Changes in behavior such as bedwetting, irritability, or poor concentration are signs as well. Sleeping problems or problems with schoolwork can also indicate something's wrong. Someone who has been bullied needs help. Bullying has been known to affect how people relate to other people and it can cause future emotional issues such as depression and anxiety.

How can a child who is being bullied get help? Listen to the child. Show love and support. Validate the child's feelings. Ask questions to get more information. Then teach the child some tips on how to keep the bully away. Teach the child to watch his or her anger because that's just the reaction the bully wants. Next, even though a child may want to physically hurt the bully, that's not the best idea. The child could get hurt; it's against the rules, and the problem usually still exists. Instead, learn ways to stay safe by hanging out with others or getting help. Acting brave and walking away may teach the bully that this is too boring to bother with. Buddy systems, positive friendships, and telling an adult are also good ideas.

Bullying can be a real problem for many children. Unfortunately, it happens most often in school situations. To keep children physically and emotionally safe, bullying can not be tolerated at a locker, on the bus, in the bathroom, or anywhere. Teachers, administrators, and parents need to keep a safe school environment and intervene when necessary. In the event that bullying is occurring anyway, children need to notify the adults in their lives, and the adults need to discipline the bullies and prevent further bullying.

Bullying

Questions

- _____ 1. Bullying is widespread.
- A. True
B. False

Name: _____

- _____ 2. Bullying most often occurs at _____.
A. school
B. the neighborhood playground
C. the counselor's office
D. the supermarket
- _____ 3. Bullying that involves the computer is known as _____.
A. verbal bullying
B. physical bullying
C. cyber bullying
D. emotional bullying
- _____ 4. Physical bullying includes _____.
A. name calling
B. isolation
C. kicks, bites, and punches
D. sending computer threats
- _____ 5. Many bullies have experienced someone bullying them.
A. False
B. True
- _____ 6. What fraction of young bullies move on to become criminals?
A. $\frac{2}{4}$
B. $\frac{4}{4}$
C. $\frac{3}{4}$
D. $\frac{1}{4}$
- _____ 7. Which is NOT a sign that a child is being bullied?
A. mysterious stomachaches
B. sleeping problems
C. constant smiles
D. irritability

Circle the greatest number: 4,912 720,694,581 57,340,896 532,714,806,912		Can 304 be evenly divided by 8? Circle: 304 is divisible by 8 304 is NOT divisible by 8
In each pair, circle the word that is spelled correctly. comeing, coming celler, cellar sleeve, sleeve		
Circle the relative adverb. Do you know why Desi had to stay after school?	$(9 + 6) + 6 =$	



Name: _____

Adam's Red Rover team won $\frac{1}{2}$ of the games they played at the park last week. If they won 15 games, how many games did they play?

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?

There were 13,856 weddings in Springs City last year. According to state records, notaries public performed 15% of the weddings. How many weddings were not performed by notaries public?

Four pounds of chocolates in a special tin costs \$27.85. The store will gift wrap the tin for \$2.95. The cost to ship the candy is \$0.10 per ounce. How much is the total cost to buy the candy, have it gift wrapped, and shipped?

$$\begin{array}{r} 26 \\ - 15 \\ \hline \end{array}$$

Which has the smallest answer?

$$264 \div 36 \quad 268 \div 36 \quad 274 \div 36$$



Name: _____

At the Sugar and Spice Bakery, there are many different kinds of donuts. Chocolate-covered donuts cost \$0.89 each. Cream-filled donuts cost \$0.99 each. Cinnamon donuts cost \$0.59 each and donuts with candy sprinkles cost \$0.79 each. Megan bought 5 chocolate-covered donuts, 3 cinnamon donuts, and 2 cream-filled donuts. How much did she spend in all?

The students at Marion Heights Elementary School went on a field trip to the United Nations building as a part of their World Hello Day celebration. They left the school at 8:41 a.m. and returned at 3:21 p.m. How long was the trip from the time they left until the time they returned to school?

Write the missing family fact.

$$70 \div 14 = 5$$

$$5 \times 14 = 70$$

$$70 \div 5 = 14$$

$$26 + n = 44$$

Round 11,507 to the nearest thousand.

Hunter's father is a police officer. He works from 9:00 a.m. until 4:45 p.m. for four days each week. How long does Hunter's father work in a week?

Sara is going to work at Hot Springs National Park this summer. She will make \$12 per hour. She will work seven hours each day, six days a week. How much will she make in eight weeks?

Anna wrote a report about Sally Ride for her science class. It took her an hour and 28 minutes to write the report. If she began writing at 11:50 a.m., what time did she finish the report?

$$8 \div \frac{1}{9}$$

How many centimeters in 7.3 meters?

Round the decimal 0.765 to the nearest hundredth.

Name: _____

Bob is in charge of making the box for his company's 60-watt bulbs. He first draws a picture of the bulb under the name Long Lasting Bulbs. Then he wants to write in big letters how long the bulbs will last. The bulbs have an estimated life of 13,000 hours. How many years would that be if the bulbs are on 24 hours per day?

Bob thinks it might make more sense to assume the bulbs are on 4 hours a day. How many years will the bulbs last if they are only used for 4 hours every day, instead of 24 hours?