

Keep On Learning!

5th
grade

4 Week At-Home Learning Packet

✓ ELA ✓ MATH ✓ SCIENCE



5th Grade

WEEK 1				
Day 1	Day 2	Day 3	Day 4	Day 5
<input type="checkbox"/> Giant Pandas Reading <input type="checkbox"/> Panda Place Value <input type="checkbox"/> Panda Life Cycle	<input type="checkbox"/> A Panda Story Planning <input type="checkbox"/> Taco 'Bout Common Factors <input type="checkbox"/> Animal Behaviors	<input type="checkbox"/> A Panda Story <input type="checkbox"/> Prime or Composite <input type="checkbox"/> Animal Behaviors Sort	<input type="checkbox"/> Panda Prepositions <input type="checkbox"/> Coordinate Planes <input type="checkbox"/> Flower Reproduction	<input type="checkbox"/> My Shadow Poem <input type="checkbox"/> Manatee Multiplication <input type="checkbox"/> Life Cycles
WEEK 2				
Day 6	Day 7	Day 8	Day 9	Day 10
<input type="checkbox"/> A Story About Friendship <input type="checkbox"/> Dolphin Division <input type="checkbox"/> Plant Reproduction	<input type="checkbox"/> Why the Ocean is Salty <input type="checkbox"/> Equations & Expressions <input type="checkbox"/> Weathering & Erosion	<input type="checkbox"/> Women's Suffrage <input type="checkbox"/> Read & Write Decimals <input type="checkbox"/> Weathering & Erosion Sort	<input type="checkbox"/> Idioms <input type="checkbox"/> Measurement <input type="checkbox"/> Weathering & Erosion Vocab	<input type="checkbox"/> Idioms II <input type="checkbox"/> Elapsed Time <input type="checkbox"/> Rocks & Minerals
WEEK 3				
DAY 11	DAY 12	DAY 13	DAY 14	DAY 15
<input type="checkbox"/> Idioms III <input type="checkbox"/> Multi-Step Word Problems <input type="checkbox"/> Earth's Resources	<input type="checkbox"/> Text Structure <input type="checkbox"/> Interpreting Remainders <input type="checkbox"/> Earth's Resources	<input type="checkbox"/> The Zoo Debate <input type="checkbox"/> Angles <input type="checkbox"/> States of Matter	<input type="checkbox"/> Verbs <input type="checkbox"/> 2D Shapes <input type="checkbox"/> Magnets	<input type="checkbox"/> Me the Tree Writing <input type="checkbox"/> Adding & Subtracting Fractions <input type="checkbox"/> Forms of Energy
WEEK 4				
DAY 16	DAY 17	DAY 18	DAY 19	DAY 20
<input type="checkbox"/> Show Don't Tell Writing <input type="checkbox"/> Measurement II <input type="checkbox"/> Heat	<input type="checkbox"/> Greek & Latin Word Parts <input type="checkbox"/> Add & Subtract Mixed Numbers <input type="checkbox"/> Changes in Matter	<input type="checkbox"/> Synonyms & Antonyms <input type="checkbox"/> Comparing Decimals <input type="checkbox"/> Moon Phases	<input type="checkbox"/> Similes & Metaphors <input type="checkbox"/> Multiply Decimals <input type="checkbox"/> Earth in Space	<input type="checkbox"/> Context Clues <input type="checkbox"/> Divide Decimals <input type="checkbox"/> Force & Motion

Keep on Learning!

My At-Home Learning Packet

Name _____



ELA

5th Grade

GIANT PANDAS

Pandas live mainly in the temperate forests of southwest China. They live high in the mountains, eating mostly bamboo.

TEMPERATE FORESTS

A temperate forest is a forest found between the tropics and boreal regions. They have a moderate climate. They are called "four-season forests" because they experience all four seasons.

These forests are cool, wet, and misty. Pandas may climb up to 13,000 feet high to feed on their bamboo.



PANDA LIFESTYLE

Giant pandas are solitary. In fact, males use their sense of smell to avoid each other. Females give birth to a cub or two. The cubs are born blind and weigh only 5 ounces. They will begin to crawl at three months. They are born white and won't develop their color until later.

Pandas eat about 26 to 84 pounds of bamboo each day. They have an insatiable appetite. A typical panda eats half of the day. That means they spend 12 hours eating! Although their main diet is bamboo, they may sometimes eat birds or rodents.

If pandas are eating half the day, what else do they do? Pandas are very good tree-climbers and swimmers.

PANDAS & THE ENVIRONMENT

Giant pandas play a crucial role in their forest habitat. They help keep the mountain forest healthy by spreading seeds. With all of that bamboo eating, pandas relieve themselves dozens of times a day. This is how many seeds are spread. This seed dispersal helps the forest thrive.

Sadly, pandas are vulnerable due to habitat loss. There are currently a little over 1,800 pandas in the wild. Zoos and other breeding centers are helping to save these big, beautiful creatures. Laws and other policies help protect them as well.

GIANT PANDAS

Name _____ Date: _____

1. What does the word insatiable mean?	2. How many pandas are in the wild?	3. What is one way pandas use their sense of smell?
4. Why are pandas considered "vulnerable"?	5. Where do pandas live?	6. What does the word solitary mean?
7. What is "seed dispersal"?	8. How do pandas help their forest environment?	9. What are people doing to help pandas?

A PANDA STORY

Name _____ Date: _____

Directions:

Write a story in which the main character is a panda. Use this page to plan out your story using the following story elements. Write your story on the next page.

Main Character	Cast of Characters	Setting
Main Problem	Solution	Theme (What do your characters learn?)
Beginning	Middle	End

A PANDA STORY

by _____

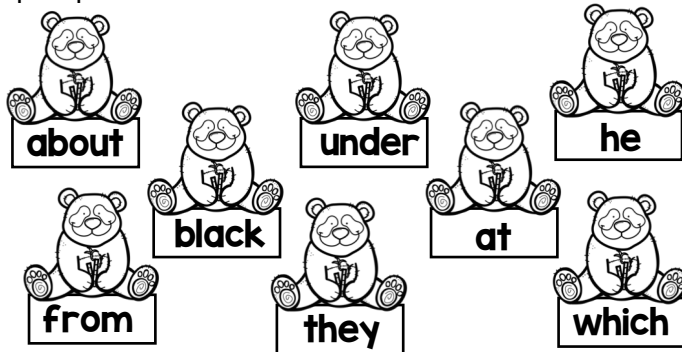


PANDA Prepositions

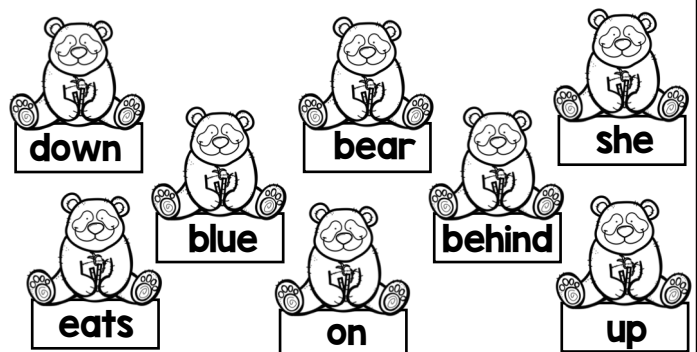
Name _____ Date _____

A **preposition** is a word that shows the relationship between other words in a sentence. A preposition usually tells how, when, where, or what kind. **Examples of prepositions:** about, after, at, behind, by, during, up.

Which of the following words are prepositions? Color them .



Which of the following words are prepositions? Color them .



Read the sentence below.

The panda eats his bamboo under the tree.

Which word is a preposition?

- a. eats
- b. panda
- c. under
- d. tree

Read the sentence below.

The zoo rescued a panda from China.

Which word is a preposition?

- a. zoo
- b. rescued
- c. a
- d. from

Read the sentence below.

Wild pandas live only in remote mountainous regions of China.

Which word is a preposition?

- a. live
- b. only
- c. in
- d. China

Read the sentence below.

Pandas may climb up trees as tall as 13,000 feet.

Which word is a preposition?

- a. may
- b. climb
- c. up
- d. tall

My Shadow

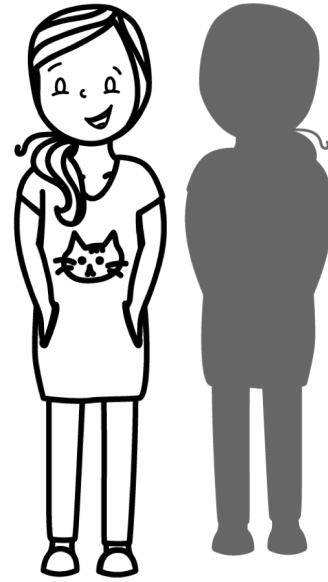
by Robert Louis Stevenson

I have a little shadow that goes in and out with me,
And what can be the use of him is more than I can see.
He is very, very like me from the heels up to the head;
And I see him jump before me, when I jump into my bed.

The funniest thing about him is the way he likes to grow—
Not at all like proper children, which is always very slow;
For he sometimes shoots up taller like an india-rubber ball,
And he sometimes gets so little that there's none of him at all.

He hasn't got a notion of how children ought to play,
And can only make a fool of me in every sort of way.
He stays so close beside me, he's a coward you can see;
I'd think shame to stick to nursie as that shadow sticks to me!

One morning, very early, before the sun was up,
I rose and found the shining dew on every buttercup;
But my lazy little shadow, like an arrant sleepy-head,
Had stayed at home behind me and was fast asleep in bed.



1. What point of view is this poem written in?
 - a. first person
 - b. second person
 - c. third person
2. What evidence supports your answer to number 1?
 - a. "He stays so close"
 - b. "I have a little shadow"
 - c. "What can be the use of him"
 - d. "He's a coward"
3. What is the author describing in the second stanza?
 - a. How his shadow follows him around
 - b. That his shadow is different sizes at different times
 - c. That his shadow embarrasses him
 - d. That his shadow stayed in bed that morning
4. How many stanzas are in this poem? _____
5. How many lines are in this poem? _____
6. Which statement below best describes the rhyme scheme (pattern) in the poem?
 - a. Every other line rhymes (example: lines 1 and 3 rhyme, lines 2 and 4 rhyme).
 - b. There are no rhyming words.
 - c. The last line of each stanza rhymes.
 - d. Each pair of lines rhyme (example: lines 1 and 2 rhyme, lines 3 and 4 rhyme).
7. How would this text be different if it were written as a drama (play)?
 - a. It would have scenes and stage directions.
 - b. It would have rhyming words.
 - c. It would be about a different topic.
 - d. It would have a narrator.

A Story About Friendship

Kristy knew even before that she was different. She looked different from her parents who had blonde hair and fair skin. Kristy had brown skin and black, curly hair.

It was hard for Kristy to find friends. She had been teased a few times at other schools. Her family kept moving, and now she was homeschooled. She was often lonely.

On her 8th birthday, Kristy only had one wish: to have a true friend. She knew it was impossible, but she believed in the magic of birthday wishes. As she blew out the candles on her cake, Kristy closed her eyes and wished really hard. She hoped to open her eyes and have a friend in front of her, but instead she just saw her parents' smiling faces. Kristy was sad and wanted to cry.

"Let's go Kristy! We're going somewhere," her mom said. She jumped in the car, expecting to go to the park. She didn't like the park very much. "Where are we going?" Kristy asked. Her dad said it was a surprise.

When they got there, a nice lady welcomed them. She said she was a **volunteer** at the animal shelter. Kristy carried each one of the puppies the volunteer brought to her. They all looked cute! Then out of the corner of her eye, she saw a little brown puppy. It was all curled up in the corner. It looked so tiny beside the other puppies. "How about that one?" Kristy asked the volunteer.

"Oh, that one's a little shy, but you can carry her if you want," the volunteer answered.

The volunteer placed the puppy in Kristy's arms. As soon as Kristy held it, the puppy started licking her face and wagging its tail! Kristy could see that the puppy was curly, like her. Kristy stroked the puppy's fur, and it gave her more puppy kisses. Soon, the puppy was following Kristy around the room, clearly asking her for belly rubs.

"I think she likes you, Kristy. She's never played with any of our visitors before," the volunteer told Kristy.

After some time, her parents told Kristy it was time to go. Kristy felt a little sad and gave the puppy back to the volunteer. Then her parents smiled and told Kristy that they were going to bring home her new friend.

Kristy's face lit up. "Are you serious, Mom? We're adopting her? Just like me! You adopted me! You chose me!" Kristy couldn't believe it.

"Yes, sweetie. And now you're choosing your puppy," Kristy's dad hugged her.

When they got home, Kristy showed the puppy around. Kristy laughed at the puppy's antics. She was so happy to have a friend that didn't tease her or make fun of her. And most of all, she had a friend who she doesn't have to leave when they move.

"I think I'm going to call her Bee," Kristy said as they got ready for bed.

Kristy knew that her birthday wish came true.

A Story About Friendship

Name _____ Date _____

Use the story to answer the questions.

1. Which word is a synonym for **antics**?

- a. playfulness
- b. understanding
- c. furiousness
- d. misbehavior

2. Kristy is **homeschooled**. What does that mean?

- a. She never has to go to school.
- b. She is educated at home instead of going to school.
- c. There is a school that comes to her house.
- d. She lives at school.

3. What does the word **volunteer** mean?

- a. a friend
- b. unpaid helper
- c. paid helper
- d. a person who works at an animal shelter

4. Why did Kristy feel different from her parents? _____

5. How does Kristy feel at the beginning of the story?

- a. angry
- b. excited
- c. afraid
- d. lonely

6. What did Kristy want for her birthday? _____

7. What would you do if you got to meet Kristy? What would you tell her? _____



WHY THE OCEAN IS SALTY

Have you ever wondered why the ocean is salty? This is a question that a lot of children have asked before. So many children around the world have asked this question so many times that almost all cultures and countries have a different story to explain it. In the Philippines, a country surrounded by water, there are even **multiple** versions of this myth.

According to legend, the ocean was not always salty. The people in the Philippines used their boats to cross the sea to get salt from a mountain of salt across the sea.

One day, the village people ran out of salt. But they didn't want to cook without salt. They needed the salt to make their food more delectable and tasty. However, they could not cross the sea because of strong winds and huge waves. The villagers wondered how they could get to the mountain of salt. Then one of the villagers said, "Let's ask Ang-ngalo for help!"

Ang-ngalo was a giant that lived in a mountain near the village. He was a friendly giant who was always ready to help the villagers.

"Ang-ngalo," called the villagers, "please help us, we need to get to the mountain of salt."

The giant agreed to help the villagers. He sat on the shore and spread his leg across the ocean. "Cross my leg and use it as a bridge," he told the villagers.

So the villagers took their empty sacks and pails and crossed the giant's leg.

But the giant did not notice that he had placed his heel on an anthill! Big, red ants, started crawling on his foot and biting the giant. It was itchy and painful! Ang-ngalo waited until the last villager had crossed. Then, he bent his leg so that he could wash the ants off in the ocean. He felt better after washing the ants off. He was relieved.

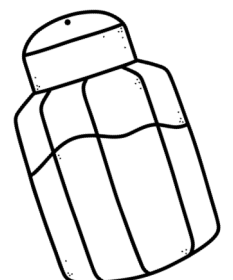
After a while, the villagers shouted and waved at Ang-ngalo. "Ang-ngalo, stretch your leg out again, we're ready to go home!" But Ang-ngalo was scared he would get bitten again. He was terrified of the ants.

The villagers could not believe that the big giant like him would be so scared of the tiny ants. "Please Ang-ngalo, we need salt for our meat and fish!"

Ang-ngalo, because he was really kind, didn't want to let the villagers down. So sat down again and stretched his leg. The villagers started climbing and making their way back to their village.

"Hurry, the ants are biting me again!" cried Ang-ngalo.

But the villagers really did not take him seriously. They walked leisurely, telling stories, and laughing along the way.



Soon, the ants started crawling up the giant's leg. The giant couldn't take it anymore! It was really itchy and very painful and the bites were burning. He couldn't keep his leg still. He moved his leg and dipped it in the water.

Suddenly, the villagers fell in the ocean, along with their sacks and pails of salt!

Ang-ngalo quickly rescued all the villagers, and everyone was saved. Unfortunately, all the pails and sacks of salt fell into the ocean. All of the salt was dissolved into the water.

This is why the ocean is salty.



Reading Comprehension Questions

1. Which details best describe the setting in this story?

- a. many years ago in the Philippines
- b. a few years ago in the Philippines
- c. last week in Hawaii
- d. during the Civil War

2. What caused Ang-ngalo to dip his leg into the water?

- a. ants were tickling him
- b. the villagers were too heavy
- c. he was getting too hot
- d. ants were biting him

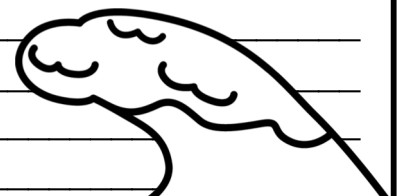
3. Which of the following best describes Ang-ngalo's personality?

- a. intimidating
- b. helpful
- c. afraid
- d. embarrassed

4. What does the word **delectable** mean?

- a. something that smells really good
- b. something that tastes really good
- c. something that does not taste good
- d. something you can eat with your fingers

5. According to this myth, explain why the ocean is salty in your own words. _____



Elizabeth Cady Stanton

Elizabeth Cady Stanton believed that women couldn't do much to change their position in life unless they could change the laws. In order to change the laws, they needed the right to vote. The right for women to vote is called women's **suffrage**. In 1850, Elizabeth and several other women held the first women's rights convention in Seneca Falls, New York. Elizabeth presented an important document called the Declaration of Sentiments. This document was modeled after the Declaration of Independence. It said that women and men were created equal. Men and women should be treated the same under the law. Almost 20 years later, Elizabeth and her good friend Susan B. Anthony formed the National Woman Suffrage Association. They wanted the **Fifteenth Amendment** to include the right for women to vote. The Fifteenth Amendment was approved in 1870. However, it only included the right for black men to vote. Over the next 30 years of her life, Elizabeth worked hard to improve the rights of women. She didn't live long enough to see women finally get the right to vote with the **Nineteenth Amendment**. However, it was her hard work that paved the way.

Susan B. Anthony

Susan B. Anthony was one of the biggest leaders of women's suffrage. One time, Susan was not allowed to speak at a temperance convention. Why? Because she was a woman! She realized that no one would take women seriously unless they had the right to vote. This began her relentless fight. In 1869, Susan and Elizabeth Stanton founded the National Woman Suffrage Association. Susan was tireless in her efforts. She even took matters into her own hands in 1872. She voted illegally in the presidential election! She was fined \$100 for voting. She refused to pay the fine. Her defiant act of voting turned out to be a great way to spread the word about the suffrage movement. Women realized that they had to fight for the right to vote. Susan devoted the next 37 years of her life to this effort. During this time, Susan made considerable progress. It would, however, take another 14 years after she died for women to get the right to vote.

1. How are Susan B. Anthony and Elizabeth Cady Stanton similar?

2. What was the purpose of the first women's rights convention in Seneca Falls, New York?

3. What does the word **tireless** mean? _____

4. Write a synonym for **tireless**. _____



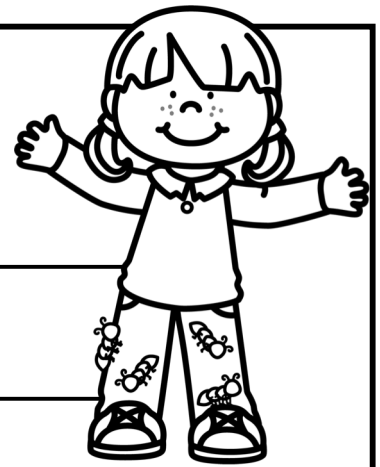
Idioms

Name _____

Date _____

An **idiom** is a word or phrase which means something different from its literal **meaning**. **Idioms** are common phrases or terms whose **meaning** is changed, but can be understood by their popular use

Directions: Read the sentences and choose the correct meaning of the underlined idiom.



**I've got ants
in my pants!**

1. I looked at the cast list for the play. Right next to the lead role was my name! For the rest of the day, I was walking on air.
 - a. my feet were floating on the ground
 - b. extremely happy
 - c. my shoes have air in the soles
 - d. extremely upset

2. "Don't beat around the bush!", exclaimed Molly. "Just tell me how you did on your Math test!"
 - a. finish some gardening work
 - b. to avoid getting to the main points of a subject
 - c. use a broom to hit bushes
 - d. tell someone the main points of your topic

3. When our teacher began talking about our field trip, I was all ears!
 - a. my body turned into ears
 - b. listening eagerly and carefully
 - c. to halfway listen
 - d. to only listen with one ear

4. Emily's soccer team had a rough season. They had lost four games in a row. However, they won the next six games and were now going to the playoffs. "You girls really know how to land on your feet!" Emily's coach stated.
 - a. to win a game
 - b. to be soccer champions
 - c. to have success after facing challenges
 - d. to jump without falling on the ground

Idioms II



Name _____

Date _____

An **idiom** is a word or phrase which means something different from its literal **meaning**. **Idioms** are common phrases or terms whose **meaning** is changed, but can be understood by their popular use

Directions: Read the sentences and choose the correct meaning of the underlined idiom.

Time to hit the books!

1. My brother is such a couch potato. After 6 hours of watching TV and eating potato chips, my mom finally made him go play with his friends. That didn't last long. He came back a short while later to watch even more TV.
 - a. to eat potato chips on the couch
 - b. to become a potato on the couch
 - c. to lay around on the couch and not exercise
 - d. to play outside

2. Tracy handed me a pencil before I could even ask her for one. One day I tripped in class. Tracy helped me up and made sure I was okay. Then during lunch, she gave me one of her chocolate chip cookies because she knows they are my favorite. She really has a heart of gold.
 - a. very kind and good-natured
 - b. a heart necklace made of gold
 - c. a hard heart made of gold
 - d. her organ is made of the mineral gold

3. Jeremy wanted new shoes. He knew the exact ones they wanted. They were black high-tops with white stripes. Grandma thinks they cost an arm and a leg. Jeremy still hopes he will get them for his birthday.
 - a. he will have to trade his arm and leg for the shoes
 - b. very expensive
 - c. the shoes are the same price as an arm and a leg
 - d. the shoes aren't that much money

Idioms III



**It's raining
cats and
dogs!**

Name _____

Date _____

An **idiom** is a word or phrase which means something different from its literal **meaning**. **Idioms** are common phrases or terms whose **meaning** is changed, but can be understood by their popular use

Directions: Look at each picture of an idiom below. Write the meaning of the idiom on the line. Then use the idiom in a sentence.

Idiom:



Meaning:

Sentence:

Idiom:



Meaning:

Sentence:

Idiom:



Meaning:

Sentence:

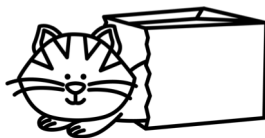
Idiom:



Meaning:

Sentence:

Idiom:



Meaning:

Sentence:

Idiom:



Meaning:

Sentence:

Text Structure

Name _____ Date _____

During the 1400s, Europe and Asia were important trading partners. This was because Asia had many goods that Europeans were willing to pay a lot of money for. As a result, many people became rich and profited. Unfortunately, the trading route was very dangerous. For some traders, it took years to complete. Europeans wanted an easier and safer way to trade routes. They began exploring other waterways to Asia.

Which type of text structure is used?

- a. compare and contrast
- b. cause and effect
- c. problem and solution
- d. chronological order

In 1977, Nasa began looking for women astronauts. Sally Ride was a student at the time. She saw an ad in the school newspaper inviting women to apply to the astronaut program. Sally Ride decided to apply for the job. She was one of six women chosen! On June 18, 1983, Sally Ride became the first American woman to fly in space. She was an astronaut on a space shuttle mission. She flew on the space shuttle again in 1984. Both missions were a success.

Which type of text structure is used?

- a. compare and contrast
- b. cause and effect
- c. problem and solution
- d. chronological order

Mary McLeod Bethune was known as the "First Lady of the Struggle." She dedicated her life to improving the lives of African Americans, especially women. During her time, African American women and men did not have the same rights. Mary believed in the power of education. She believed education was the key to help people rise out of poverty. She founded a school for African American girls. Her small school eventually became Bethune-Cookman College when it merged with Cookman Institute for Men. It was one of the few schools where an African American could get a college degree.

Which type of text structure is used?

- a. compare and contrast
- b. cause and effect
- c. problem and solution
- d. chronological order

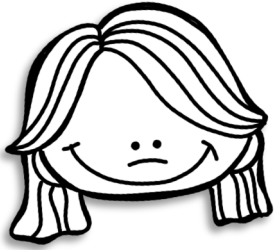
Zoos can get a bad reputation. Some people think zoos should free their animals. These people are animal rights activists and want to help animals. These groups are usually upset with roadside zoos. Roadside zoos are very different than other city zoos. These are small zoos that keep the animals in squalor condition. These roadside zoos don't often have license to operate. Wild and exotic animals in these zoos often suffer in captivity. On the other hand, there are many zoos that are helping animals breed and increase their population.

Which type of text structure is used?

- a. compare and contrast
- b. cause and effect
- c. problem and solution
- d. chronological order

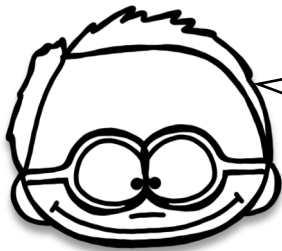
The Zoo Debate

Name _____ Date _____



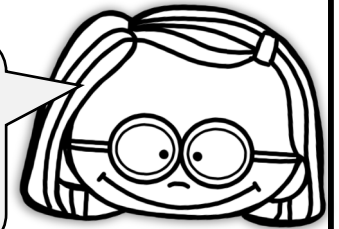
Zoos are educational! Zoos teach us about animals that we don't easily find in our homes or backyards. It's a place where you can learn where they live and how they live.

Is it right or wrong to cage wild animals? Sure, zoos may be educational. But keeping animals in captivity always makes us ask: Is it right or wrong? Some animals, like the average house cat, will thrive in a captive environment. Others, like orcas, do very poorly when living in captivity.



Conservation efforts at zoos can help stop extinction. Zoos around the world work together to preserve rare and extremely endangered species. Zoos help to breed more animals. This helps build the population of animals.

Conservation programs do not always guarantee that an endangered species will survive. Most large carnivores that are bred in captivity die if returned to the wild. They have not developed the natural skills needed to survive in the wild. They don't have hunting skills. They don't fear humans. This can make them vulnerable to hunters.



1. What does the word **captivity** mean?
 - a. To make more of something
 - b. To be free to move around
 - c. To be helped while sick
 - d. The state of being held prisoner

2. Which detail from the text supports the idea that zoos are educational?
 - a. They teach us how to help bring animals to zoos.
 - b. They teach us how to keep wild animals in our own home.
 - c. They teach us about animals we might not otherwise see.
 - d. They teach us how to take care of our own pets.

3. Which of the following is a reason why some people might think zoos are helpful?
 - a. Zoos help breed more animals.
 - b. Orcas will die in the wild.
 - c. Orcas do poorly in captivity.
 - d. Large carnivores bred in captivity die when returned to the wild.

Verbs



Name _____

Date _____

A **verb** is an action word. A verb tells what something or someone does.

Read the sentence below.

Elizabeth baked cupcakes for her party.

Which word is an action verb in the sentence?



Read the sentence below.

Ryan swam in the race, and he won the race!

Write two verbs from the sentence.

Read the sentence below.

Pandas eat mainly bamboo.

Which word is a verb?

Read the sentence below.

Zoos teach us about animals we might not see in the wild.

Write two verbs from the sentence.

Choose the correct verb to complete the sentence.

Lily _____ up early yesterday.

- a. awake
- b. woke
- c. awaked
- d. wakes

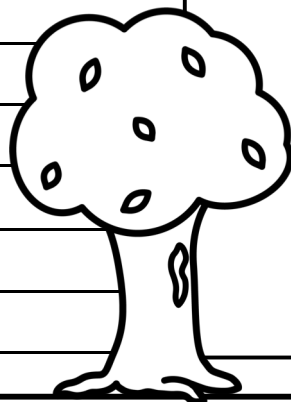
Choose the correct verb to complete the sentence.

Dan will _____ in late today.

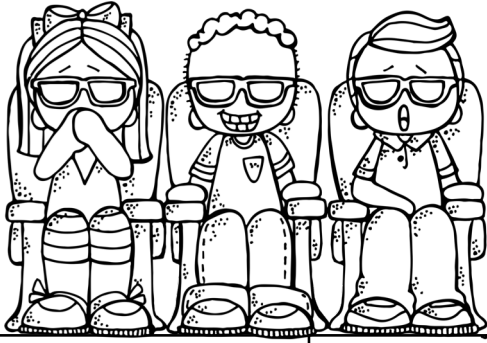
- a. sleep
- b. slept
- c. sleeping
- d. sleepy

Me the Tree: A Year in the Life

You are a tree. Describe what you have seen, learned, and how you have grown over the course of the year. Write either a story or a poem from the perspective of a tree. Draw a picture of YOU (as the tree) to go with your writing. You might decide what kind of tree you are and use as many scientific details as possible.

[illegible][illegible]

SHOW DON'T TELL



Character I

Character 2



Feeling



Feeling

Directions

1. Select 2 characters. (They can be from a book, movie, TV show, or people you know.)
2. Select a feeling word for each of the characters.
3. Write a paragraph with **at least 5 sentences** that convey this feeling through a conversation and interaction with the two characters. The reader should be able to read your paragraph and infer the character's feeling. **Use dialogue, actions, and description. DO NOT USE the feeling word in your writing.**



Feeling Words

frustration, confusion, anger,
shy, lonely, annoyed, surprised,
embarrassed, nervous,
excited, optimistic, pessimistic

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

GREEK & LATIN WORD PARTS

Yes, it's very rare to be **ambidextrous**. While 10 percent of the population is left-handed, only about 1 percent are truly able to alternate between both hands. It's a league of their own, really!

What does the Latin root **ambi** mean?

- a. left c. both
- b. right d. none

The 100th year anniversary is traditionally called the "**Centennial**," the "**Centenary**" or the "Platinum Jubilee." Some large companies have run successful campaigns to celebrate their 100th Anniversary.

What does the Latin root **cent** mean?

- a. ten c. anniversary
- b. one hundred d. celebration

It is believed that the virus was **transmitted** via bats and that its epicenter was the Wuhan Huanan Seafood Wholesale Market. But the World Health Organization (WHO) has also suggested that the virus could have originated in pangolins, also known as scaly anteaters. They are endangered species that is used in Chinese medicine.

What does the Latin root **mit** mean?

- a. to shape c. to die
- b. to send d. to break

Your brain is strongly influenced by **hydration** status. Studies show that even mild **dehydration** (1-3% of body weight) can affect many aspects of brain function. This is why it's important drink eight 8-ounce glasses of water per day.

What does the Greek root **hydr** mean?

- a. air b. water
- b. vitamins d. minerals

A **pseudonym** is a fictitious name used to conceal someone's real name. The pseudonym of an author is a pen name. The pseudonym of an actor is a stage name or screen name. A pseudonym can also be an alias used by people or groups, like sports stars or criminals.

What does the Greek root **pseudo** mean?

- a. real c. second
- b. fake d. better

What does the Greek root **nym** mean?

- a. pen c. title
- b. stage d. name

An excessive anxiety towards germs is a common ailment in children and adults alike. They also frequently go together: Kids typically pick up these fears from adults, though occasionally they might develop them all on their own. One of the things that makes **germophobia** so difficult to overcome is that those afflicted don't believe they are being irrational. After all, germs are bad, aren't they? It's a fear that on the surface seems entirely justified.

What does the Greek root **phobia** mean?

- a. excessive love
- b. extreme hate
- c. irrational and extreme fear

Synonyms & Antonyms

Come and Play in the Garden

By Jane Taylor

Little sister, come away,
And let us in the garden play,
For it is a **pleasant** day.

On the grass-plot let us sit,
Or, if you please, we'll play a bit,
And run about all over it.

But the fruit we will not pick,
For that would be a **naughty** trick,
And very likely make us sick.

Nor will we **pluck** the pretty flowers
That grow about the beds and bowers,
Because you know they are not ours.

We'll take the daisies, white and red,
Because mamma has often said
That we may **gather** then instead.

And much I hope we always may
Our very dear mamma obey,
And mind whatever she may say.

Choose the best synonym to replace the word in each line.

For it is a **pleasant** day.

- | | |
|----------------|--------------|
| a. celebratory | c. enjoyable |
| b. somber | d. gloomy |

But the fruit we will not pick,
For that would be a **naughty** trick,
And very likely make us sick.

- | | |
|-----------------|------------|
| a. troublesome | c. evil |
| b. good-hearted | d. playful |

Nor will we **pluck** the pretty flowers
That grow about the beds and bowers,

- | | |
|------------|------------|
| a. step on | c. trample |
| b. pick | d. smell |

Because mamma has often said
That we may **gather** then instead.

- | | |
|-------------------|-----------|
| a. flock together | c. huddle |
| b. collect | d. swarm |

Loss And Gain

by Henry Wadsworth Longfellow

When I compare
What I have lost with what I have gained,
What I have missed with what attained,
Little room do I find for pride.

I am aware
How many days have been idly spent;
How like an arrow the good intent
Has fallen short or been turned aside.

But who shall dare
To measure loss and gain in this wise?
Defeat may be victory in disguise;
The lowest ebb is the turn of the tide.

Circle the antonym of the word in bold. The antonym can be found in the same line of the poem.

- What I have **lost** with what I have gained
- What I have **missed** with what attained
- To measure **loss** and gain in this wise?
- Defeat** may be victory in disguise

Similes and Metaphors

Name _____ Date _____

Simile or Metaphor?

The students moved as fast as lightning after they were dismissed early.

- a. simile
- b. metaphor

This means:

- a. The students went out of the classroom quickly.
- b. The students went straight home.

Simile or Metaphor?

Her tears were a river flowing down her cheeks.

- a. simile
- b. metaphor

This means:

- a. She was crying a lot.
- b. She was crying by the river.

Simile or Metaphor?

The computers at school are old dinosaurs.

- a. simile
- b. metaphor

This means:

- a. The computers were always breaking down.
- b. The computers were obsolete and outdated.

Simile or Metaphor?

Watching the show was like watching grass grow.

- a. simile
- b. metaphor

This means:

- a. The show was about nature.
- b. The show was very dull and boring.

Simile or Metaphor?

America is a melting pot.

- a. simile
- b. metaphor

This means:

- a. America is a country of diverse people and cultures.
- b. America is a country of great food and cuisine.

Simile or Metaphor?

Gah! Her voice sounds like nails on a chalkboard!

- a. simile
- b. metaphor

This means:

- a. She talks like a teacher.
- b. Her voice is extremely irritating.



Context Clues

Name _____ Date _____

After the United States became a nation, the Founding Fathers wanted to choose a national **emblem**. The task was more difficult than they probably expected. Some people suggested the eagle. Benjamin Franklin disagreed because many other countries had previously chosen the eagle as their emblem. Franklin also said that eagles didn't represent integrity because they steal food from other animals.

What is the meaning of **emblem** as used in the passage?

- a. a mark made by burning
- b. an object or animal that represents a country, organization, or family
- c. a symbol that identifies a product or service as unique from those of other sellers

In 1865, at a dinner party in France, French leaders were talking about the Civil War and Abraham Lincoln's death. They wanted to make a **monument** to celebrate America's fight for liberty. The sculptor, Frederic-Auguste Bartholdi, attended the dinner party. He began working on a small clay model of a woman to represent freedom. He presented it to French and American leaders. Although the French had hoped to present the statue to America on the 100th anniversary of the signing of the Declaration of Independence, the Statue of Liberty took 10 years to build.

What is the meaning of **monument** as used in the passage?

- a. an important point in the progress of something
- b. a building, statue, etc., that honors a person or event
- c. something that shows the presence or existence of something

Schools, government buildings, libraries, churches, and even many homes display our flag, especially on patriotic holidays like the 4th of July. Old Glory, also known as The Stars and Stripes, is a reminder that we are free to work, play, worship, and speak as we wish. We can elect our own leaders. We have a **democracy** rather than a monarchy. The flag is also a reminder of the thousands of people who sacrificed their homes, their time, their money, and even their lives for freedom.

What is the meaning of **democracy** as used in the passage?

- a. nation ruled by a king or queen
- b. government by the people
- c. a form of government in which absolute power is exercised by a dictator.

When you think of Washington D.C., what do you think of? Chances are, the White House, official home to the President, is near the top of the list. George Washington is the only U.S. President who never lived in the White House, although he helped choose the land and the home design. Today, the White House is a **stately**, dignified place, the location of frequent state dinners, official business, and of course, the President's residence.

What is the meaning of **stately** as used in the passage?

- a. serious and somewhat formal
- b. very impressive in appearance, manner, or size
- c. official

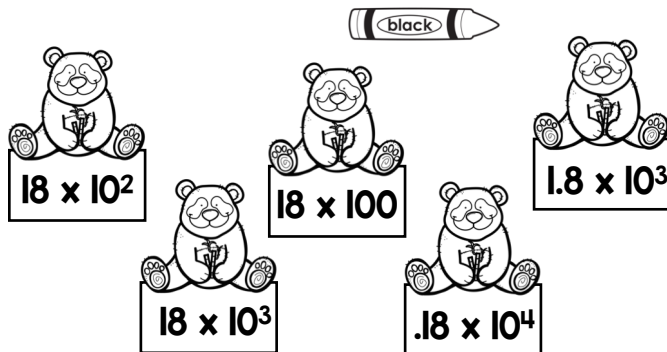
Math

5th Grade

PANDA Place Value

Name _____ Date _____

There are just a little over 1,800 pandas in the wild. Shade all of the numbers that are equivalent to 1,800.



What is the missing number?

$$\begin{array}{r}
 45,499 \\
 13,329 \\
 + \square 7,015 \\
 \hline
 95,843
 \end{array}$$



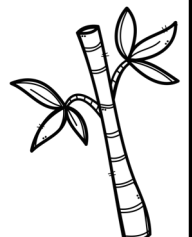
A panda can climb as high as 13,000 feet. Which of the following numbers round to 13,000?
Which of the following numbers is $\frac{1}{10}$ of 13,000?

- a. 1.3
- b. 13
- c. 130
- d. 1300



Which of the following numbers does the 5 have a greater value?

- a. 0.5
- b. 0.05
- c. 0.005
- d. 0.15



What is the value of the missing exponent in the expression below?

$$3.781 \times 10^{\square} = 37,810$$

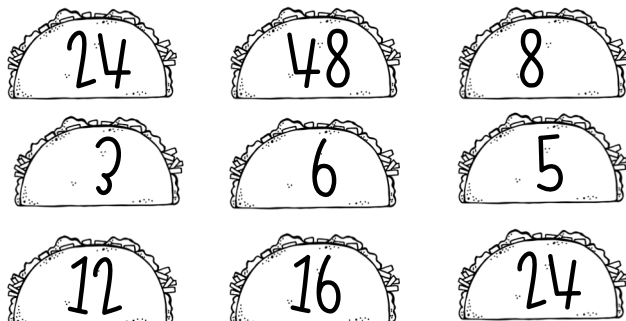
A panda climbed 12,345 feet. What is the value of the 2 in this number?

Taco 'Bout Common Factors!

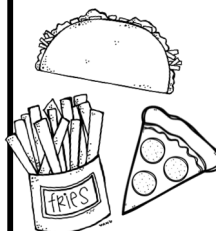


Name _____ Date _____

What factors do 24 and 48 have in common? 



Annie collects mini erasers. She has 45 taco erasers, 36 cheeseburger erasers, and 18 pizza erasers. She wants to arrange the erasers into rows. Each row will have the same number of erasers and all the figures in a row will be the same. How many figures can be in each row?



Moataz is having a party and preparing gift bags for all of his guests. He has 24 pieces of gum, 16 pens, and 40 taco erasers. He wants each bag to have the same number of items and all the items in a bag will be the same. How many items can Moataz put in each bag?

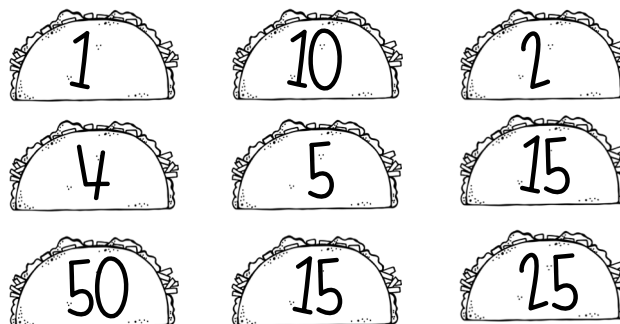
What factors do 36 and 24 have in common? 



Jeremiah is arranging hot sauce bottles on the shelves of his restaurant. He has 60 bottles of mild sauce, 36 bottles of medium sauce, and 48 bottles of **REALLY HOT** sauce. Each shelf will have the same number of sauces and all the items on the shelf will be the same. How many sauces can Jeremiah put on each shelf? What factors do 60, 36, and 48 have in common?



What do the factors 25 and 50 have in common?



PRIME OR COMPOSITE?

Name _____ Date _____



Determine whether each number is prime or composite. Put a checkmark in the correct column. ✓

Number	Prime	Composite
28		
13		
88		
62		
56		
2		

True or False?

Only odd numbers are prime numbers. Explain your thinking.

1 is a composite number. Explain your thinking.

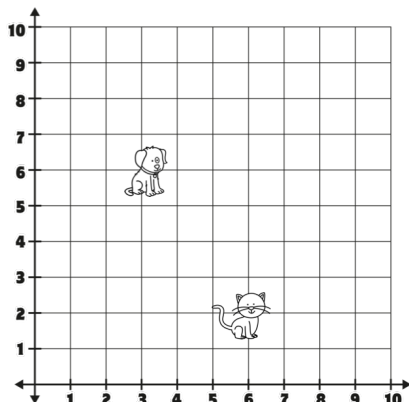
A composite number cannot have three factors. Explain your thinking.

1 is not prime. Explain your thinking.

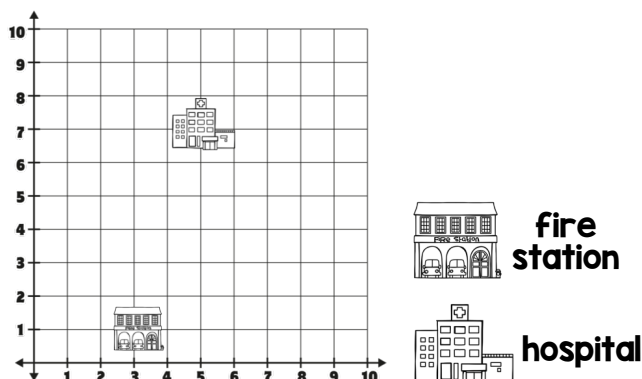
COORDINATE PLANES

Name _____ Date _____

What are the coordinates of the cat?
What are the coordinates of the dog?

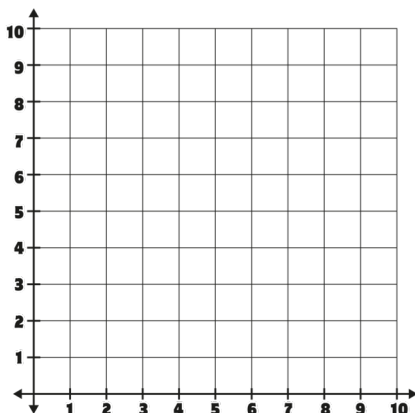


What are the coordinates of the fire station?
What are the coordinates of the hospital?



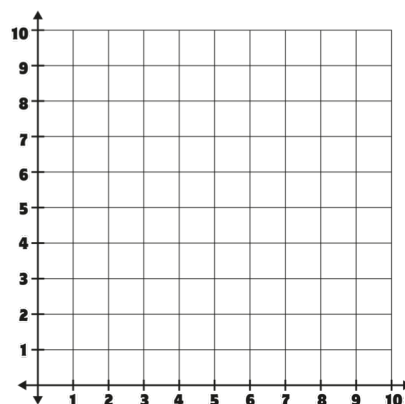
Plot and label the following points.

- A** (7,7)
- B** (4,6)
- C** (3,4)

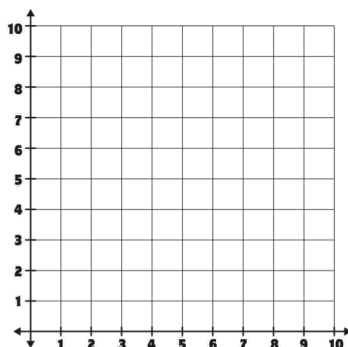


Plot and label the following points.

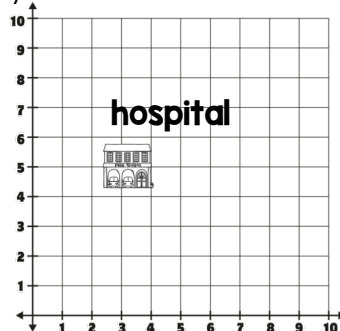
- H** (5, 3)
- I** (3, 5)
- J** (2, 9)
- K** (9, 2)
- L** (9, 9)

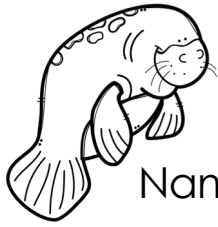


Start at (4, 7). Move right 4 units and down 5 units. Where do you end? Draw and label both points.



The location of the hospital is shown on the coordinate plane. Andre left his house, went 4 units up, 2 units right, and arrived at the hospital. Plot a point that shows the location of Andy's house.





Manatee Multiplication

Name _____ Date _____

Manatees can weigh up to 1,200 pounds. How many pounds would 15 manatees weigh total?

Select all the expressions that have a product of 425.



85×5



$(2 \times 200) + (5 \times 5)$



17×15



425×10



$(40 + 2) \times 5$



17×25

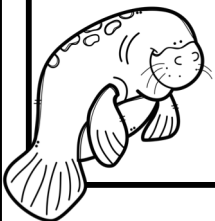
What is the product of 567 and 18?

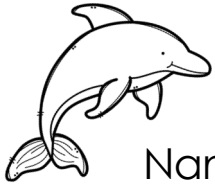
What is the product of 1,456 and 42?

Mark went to the aquarium. He bought 17 packages of manatee stickers to share with his friends. There are 347 stickers in each package. How many stickers does he have total?

Find the product.

$$\begin{array}{r} 4,978 \\ \times 18 \\ \hline \end{array}$$





DOLPHIN DIVISION

Name _____ Date _____

Bottlenose dolphins are very social. They travel in groups called pods. Suppose there are 2,655 dolphins. They are each divided into groups of 15. How many dolphins will be in each pod?

Select all the expressions that have a value of 28.

- a. $594 \div 22$
- b. $616 \div 22$
- c. $1,097 \div 39$
- d. $1,092 \div 39$
- e. $479 \div 17$

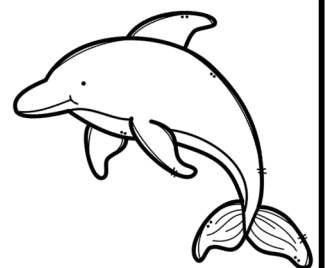
Which expression could be used to find the quotient of $8,908 \div 42$?

- a. $(8,000 \div 42) + (900 \div 42)$
- b. $(8,908 \div 40) + (8,908 \div 2)$
- b. $(89 \div 42) + (8 \div 42)$
- c. $(8,000 \div 42) + (900 \div 42) + (8 \div 42)$

What is $7,644 \div 14$?

Mark has 2,429 dolphin stickers to share with 16 friends. How many stickers will each friend get? How many stickers are left over?

What is the quotient of 5,345 and 4?



Equations & Expressions

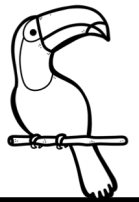
Name _____ Date _____

Becky has \$43. Her mom gave her twice as much money. Then, her friend Bobby borrowed \$10. How much money does she have left? Write an equation to solve.



Write and evaluate the expression.

Add 6 and 7, then divide by 5.



Select all expressions that have a value of 12.

- a. $(8 \times 5) \div 2 - 8$
- b. $3 \times 7 - 8 + 2$
- c. $(48 \div 6) \times 2 - 4$
- d. $17 - 8 \times 2$

Evaluate the expression.

$$(50 + 45) \div 5 + 2$$

Evaluate the expression.

$$3 \times (22 - 2) + 4$$

Evaluate the expression.

$$4 \times 36 - (8 + 7)$$

Read & Write Decimals

Name _____ Date _____

Which digit is in the thousandths place?

214.076

Which digit is in the tenths place?

850.163

Which place value is the 7?

89.375

- a. ones
- b. tens
- c. hundredths
- d. thousandths

Which digit is in the hundredths place?

1.3098

Select the decimal form for each number name.

	7.24	7.024	7.204
seven and two hundred four thousandths			
seven and twenty-four hundredths			
seven and twenty-four thousandths			

Write the decimal in standard form.

nine and eight hundred forty-five thousandths



Measurement

Name _____ Date _____

Esme and Miguel had a frog race. Esme frog hopped 5 yards 2 feet 2 inches. Dillan's frog hopped 9 yards 1 foot 10 inches. How many inches farther did Emma's frog hop than Dillan?

16 cups = _____ ounces

Annabeth and Oliver are going on a picnic. Annabeth brings 3 kg of watermelon to share. How many grams of watermelon does she bring?

Hickory trees are an insect habitat that can grow up to 40 meters tall. How many centimeters tall could a hickory tree grow?

Cole is watering his butterfly garden. His watering can contains 3 gallons of water. How many quarts of water does the jug contain?

At Brigham's Bee Farm, the best hives weigh 68 kg. How many grams are in 68 kg?



Elapsed Time

Name _____ Date _____

Michael started doing yoga at 8:37 a.m. He stopped his yoga practice at 9:42 a.m. How long did he practice yoga?



Lyndsey teaches a yoga class for kids. The class starts at 10:15 a.m. It lasts for an hour and fifteen minutes. What time will her yoga class end?



Raul went to the farmer's market at 9:08 a.m. He was gone for an hour and 15 minutes. What time did he return home?

Benjamin began working in his garden at 11:23 a.m. He stopped for lunch at 12:30 p.m. How long did he work in his garden?



Jayla's dance class began at 5:30. Her class was over at the time shown on the clock. How long was her dance class?



What time is shown on the clock below?





Multi-Step Word Problems

Name _____ Date _____

Tyler wants to buy a bike that costs \$125. He has already saved \$110. He earns \$8 each hour as a lifeguard. He saves all of it for the bike. How many more hours does Tyler need to work as a lifeguard in order to have enough money to buy the bike? Write an equation and solve.

A bake sale is charging \$3 per brownie. Each pan of brownies is cut into 9 rows, with 8 brownies in each row. How much money will the bake sale make from each pan of brownies? Write an equation and solve.

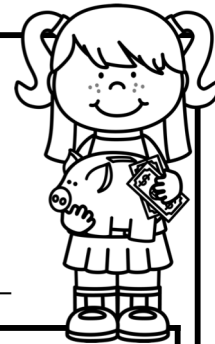
While playing at the arcade, Ryan won 8 tickets playing ring toss and 10 tickets playing PacMan. If he was trying to buy candy that cost 3 tickets a piece, how many could he buy? Write an equation and solve.

Perry earns \$8 for each lawn he mows. He mows 5 lawns each day. After mowing lawns for 7 days, how much money will Perry have earned? Write an equation and solve.

Megan's old washing machine could only wash ten pieces of clothing at a time. If she had to wash twenty shirts and thirty-three sweaters how many loads would she have to do?

- a. 9
- b. 3
- c. 6
- d. 10

A store had 24 coloring books in stock. They ended up putting them on sale and sold 8 of them. They put the ones they still had onto shelves with 3 on each shelf. How many shelves did they use? Explain what to do with the remainder.



Interpreting Remainders

Name _____ Date _____

The bookstore has books on sale for \$5. Miguel has \$28 in his wallet. How many books can he buy?

There are 28 students in a 4th grade class. Each table in the classroom seats 8 students. How many tables will be needed to seat all of the students?

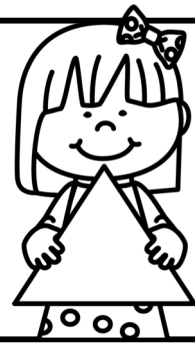
Mrs. Worthington has 55 books to place onto shelves. Each shelf holds 8 books. How many books do not fit on the shelves?

Mr. Meyer has \$32. He gave his 5 children an equal amount of money. How much money will he have left over?

Dwight packs 45 oranges into trays for the market. Each tray holds 6 oranges. How many apples are in the partially filled tray?

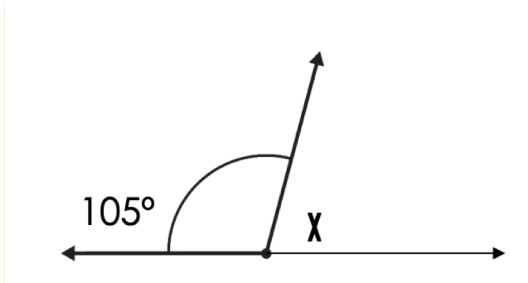
Dara packs 36 apples into trays for the market. Each tray holds 8 apples. How many apples are in the partially filled tray?

ANGLES



Name _____ Date _____

Wallace is building shelves at his house. What is the measure of the unknown angle?



Look at the clock.



Part A: What is the measure of the angle?

Part B: Which type of angle is shown?

- a. acute
- b. right
- c. obtuse

Two angles form a straight angle. One angle measures 124° . What is the measure of the other angle?

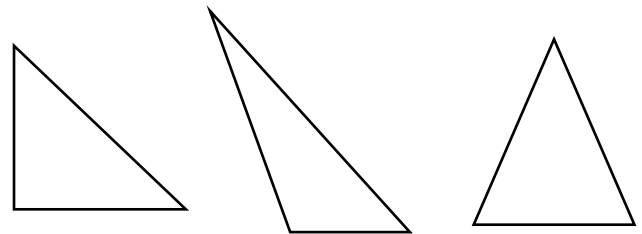
- a. 89°
- b. 252°
- c. 56°
- d. 66°

Match the triangle to its correct name.

acute

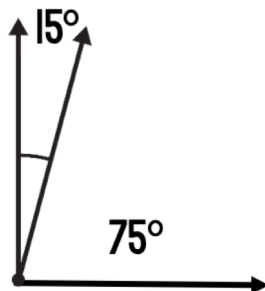
obtuse

right



Which equation can you use to find the $m\angle XYZ$?

- a. $75^\circ - 15^\circ =$
- b. $90^\circ - 75^\circ =$
- c. $75^\circ + 15^\circ =$
- d. $15^\circ \times 75^\circ =$



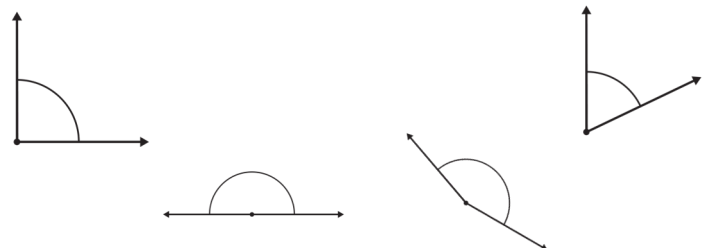
Match the angle to its correct name.

straight

acute

obtuse

right

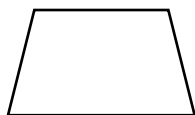
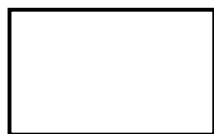
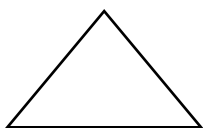




2D SHAPES

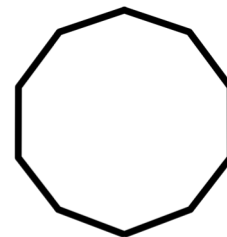
Name _____ Date _____

Color the quadrilaterals that can have 2 pairs of parallel sides, all sides with equal length, and no right angles.



Which of these shape names could be used to name the shape below?

- a. decagon
- b. quadrilateral
- c. rhombus
- d. hexagon



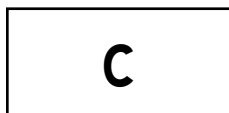
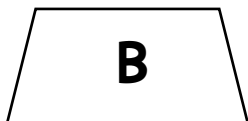
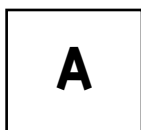
Select all the words that describe the quadrilateral below.

- a. square
- b. rectangle
- c. parallelogram
- d. trapezoid
- e. rhombus

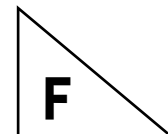
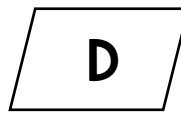
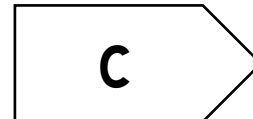
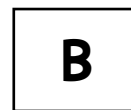
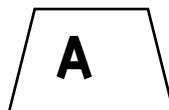


Draw a shape that has 2 right angles and 1 pair of parallel sides.

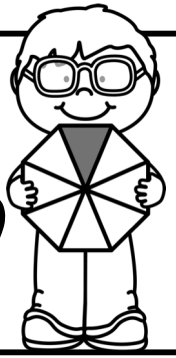
Cody drew the the shapes below. Which shapes have 2 pairs of parallel sides?



Rianna drew the shapes below. Which shapes below are quadrilaterals?



ADDING AND SUBTRACTING FRACTIONS



Name _____ Date _____

Amy and Becca each bought a waffle. Amy ate $\frac{3}{4}$ of her waffle. Becca ate $\frac{5}{6}$ of her Danish. What fraction of did they eat total? Write as a mixed number.

Liz baked an apple pie for her sister. The pie is cut into 10 equal slices. Liz ate $\frac{3}{5}$ of the pie. Her sister ate $\frac{5}{10}$ of the pie. How much pie did they eat total?

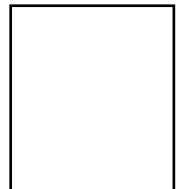
Deana is making hats for her friends. She uses $\frac{1}{3}$ yard of blue ribbon and $\frac{2}{5}$ yard of purple ribbon. How much ribbon does she use in all?

Mary is making lemonade. She will need $\frac{3}{8}$ cup of water and $\frac{2}{3}$ cup of lemon juice. How much more lemon juice will she use than water?

Mark ran for $\frac{5}{6}$ of an hour. Mason ran for $\frac{7}{12}$ of an hour. How much longer did Mark run than Mason?

What is the value of the expression?

$$\frac{4}{6} + \frac{3}{4} =$$

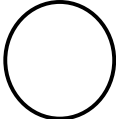


MEASUREMENT II

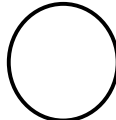
Name _____

Date _____

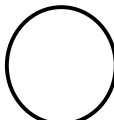
4 days = _____ hours

Compare. Use $<$, $>$, or $=$.32 months  2 years

4 minutes = _____ seconds

Compare. Use $<$, $>$, or $=$.2 gallons  7 quarts

3 years = _____ months

Compare. Use $<$, $>$, or $=$.14 cups  2 gallons

Add & Subtract Mixed Numbers

Name _____ Date _____

What is the value of the expression?

$$4\frac{2}{9} + 5\frac{1}{6}$$

What is the value of the expression?

$$12\frac{3}{4} - 5\frac{1}{3}$$

What is the value of the expression?

$$3\frac{2}{3} + 5\frac{1}{4}$$

What is the value of the expression?

$$8\frac{1}{5} - 3\frac{4}{10}$$

What is the value of the expression?

$$1\frac{3}{4} + 5\frac{4}{5}$$

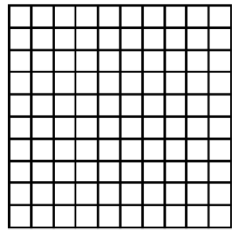
What is the value of the expression?

$$9\frac{2}{3} + 6\frac{1}{3} + 4\frac{1}{4}$$

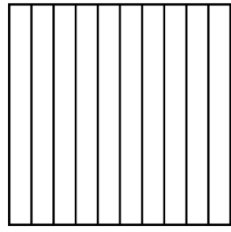
Comparing Decimals

Name _____ Date _____

Shade the models to show the decimal shown and compare. Use $<$, $>$, or $=$.

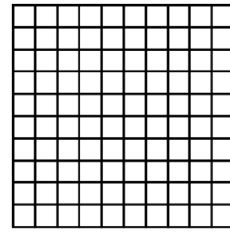


0.32

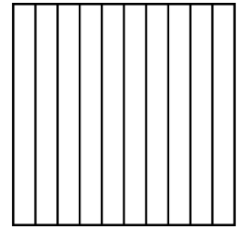


0.4

Shade the models to show the decimal shown and compare. Use $<$, $>$, or $=$.



0.45



0.4

Write the decimals in order from least to greatest.

2.014

2.45

1.2

1.5

What is 0.093 rounded to the nearest tenth?

Write the decimals in order from least to greatest.

75.14

75.04

72.024

72.204

Ana jogged 45.23 kilometers this week. David jogged 61.8 kilometers. Harry jogged 61.08 kilometers. List the distances in order from greatest to least.

Multiply Decimals

Name _____

Date _____

Multiply.

$$7.89 \times 8$$

Multiply.

$$5.38 \times 12$$

Multiply.

$$354 \times 2.6$$

Multiply.

$$2.55 \times 10 \times 24 \times 9$$

Multiply.

$$0.63 \times 0.6$$

Multiply.

$$0.54 \times 0.34$$

Divide Decimals

Name _____

Date _____

Divide.

$$6.6 \div 0.3$$

Divide.

$$45.6 \div 0.3$$

Divide.

$$3.45 \div 0.5$$

Divide.

$$456 \div 0.3$$

Divide.

$$4.2 \div 0.4$$

Divide.

$$81 \div 0.9$$

Science

5th Grade

PANDA LIFE CYCLE

NAME _____ DATE _____

Use the text to write and explain each part of the panda's life cycle. Use the vocabulary to help you label and describe each picture.

Word Bank

newborn

mature

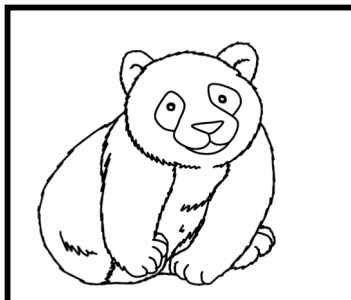
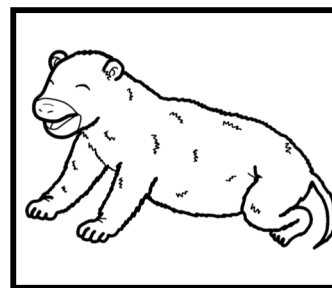
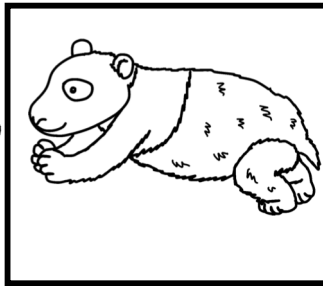
adult

baby

cubhood

bamboo

blind



ANIMAL BEHAVIORS

NAME _____ **DATE** _____

Use the word bank to complete each sentence.

inherited trait	migration	offspring	genes
learned behavior	instinctive behavior	hibernation	

1. _____ is a characteristic that is passed from parents to offspring.
2. _____ is a new organism that comes from parent organisms.
3. _____ a behavior that an animal inherits from its parents.
4. _____ a unit of heredity that is transferred from parent to offspring and determines the characteristics of the offspring
5. _____ a deep sleeplike state when an animal's body processes slow down
6. _____ the seasonal movement of animals from one place to another
7. _____ a behavior that an animal develops by observing other animals or being taught

ANIMAL BEHAVIORS SORT

Directions:

Read each sentence below. Does the sentence describe an instinctive or learned behavior? Put a check under either **Instinctive Behavior** or **Learned Behavior**. ✓

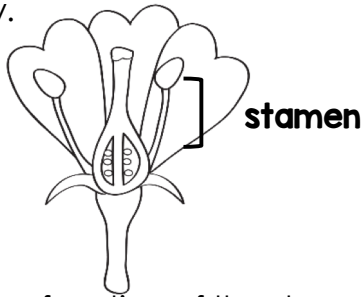
	Instinctive Behavior a behavior that an animal inherits from its parents	Learned Behavior a behavior that an animal develops by observing other animals or being taught
A baby chick walks shortly after hatching from its egg.		
A ground squirrel hibernates during the winter		
Chimpanzees use twigs as a tool to get termites out of a nest.		
A monarch butterfly migrates to South America during the Winter		
A newborn colt (baby male horse) struggles to its feet, stands, and walks		
a Florida panther stalks its prey		
a dolphin jumps through a hoop at Sea World		
A mother bear protects her cubs from a predator		
Your dog shakes your hand when you say "paw"		

Flower Reproduction

NAME _____ DATE _____

Answer each question below.

1. Look at the part of the flower identified below.



What is the function of the stamen?

- a. produces seeds
- b. produces eggs
- c. produces pollen
- d. produces fruit

2. Flood waters spread cones throughout swamps in Florida. What role do the flood waters play in the life cycle of the bald cypress?

- a. pollination
- b. fertilization
- c. seed dispersal
- d. removal of dead leaves

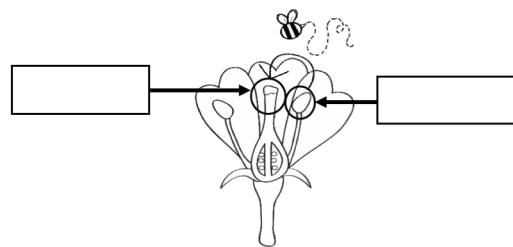
3. Which feature of the plant is used for reproduction?

- a. leaf
- b. stem
- c. root
- d. flower

4. Why might people be concerned with bees disappearing?

- a. Bees help with seed dispersal.
- b. Bees help protect seeds in nonflowering plants.
- c. Bees play a very important role as plant pollinators.
- d. Bees protect seeds until they start to germinate into seedlings.

6. Look at the following image. Explain in detail what is happening in this image and describe the results of this process. Label the circled parts of the flower. (**pistil, stamen**)



Life Cycles

Name _____ Date _____

1. For a baby bird, what is the first part of the life cycle? _____
2. What is the final stage of a bird's life cycle
 - a. an egg
 - b. chick
 - c. adult
3. How are a bird's life cycle different from a dog?
 - a. Both dogs and birds hatch from eggs.
 - b. Unlike birds, dogs do not hatch from eggs.
 - c. Both birds and dogs grow, develop, and produce young.
 - d. Unlike dogs, birds do not hatch from eggs.
4. Complete the table by putting the following steps in the order in which they occur in an animal's life cycle.

Adult animals mate with one another to produce offspring.	1.
Youths continue to develop until they grow into adults.	2.
After the young are born, they begin to grow and develop.	3.
Over time, newborns develop into youths.	4.

4. Why does a life cycle repeat again and again?

6. How does the life cycle of a butterfly compare to that of a grasshopper?
 - a. The grasshopper has four main stages in its life cycle, while the butterfly has only three.
 - b. The butterfly has four main stages in its life cycle, while the grasshopper has only three.
 - c. The butterfly begins its life as an egg, while the grasshopper begins its life as a nymph.
 - d. The butterfly stages are egg, nymph, adult and the grasshopper stages are egg, larva, pupa, adult.

Plant Reproduction

NAME _____ DATE _____

Answer each question below about plant reproduction.

1. During which stage of a plant's life cycle does the seed begin to grow into a plant?
- a. fertilization

b. germination

c. pollination

d. maturity
2. During which stage of a plant's life cycle does a plant make new seeds?
- a. fertilization

b. germination

c. maturity

d. pollination
3. Complete the table by putting the following steps in the order in which they occur in the plant life cycle.

Flowers or cones make more seeds.	1.
The plant grows until it reaches maturity.	2.
A seed is placed in soil, so it can sprout.	3.
A mature plant may grow flowers or cones.	4.



SOURCE 1

Weathering

There are a lot of changes that are constantly happening to the Earth's natural features. These changes begin with the process of breaking down or dissolving of rocks and minerals into smaller pieces. This process is called **weathering**. There are different agents that can cause weathering such as gravity, water, wind and living things such as plants and animals. Rocks can fall down a cliff and break apart due to gravity. Stones break as flowing water moves and runs on it. The wind can blow sand which can rub against rocks. The roots of the trees can cause cracks in rocks. When animals dig up rocks, they cause the rocks to be exposed to wind and rain.

SOURCE 2

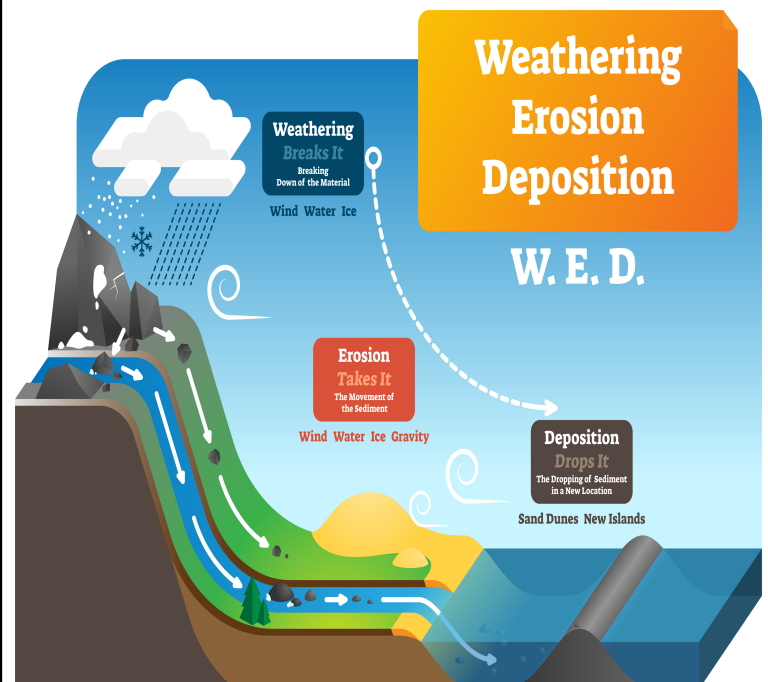
Erosion

After the rocks have been broken into smaller pieces, they will be carried to a new place. **Erosion** is the process of moving weathered rocks to another place. It can be caused by wind, water and gravity. One of the most common causes of erosion is moving water. It can move large rocks to other places. Wind can carry away soil even to thousands of miles away. Gravity makes big chunks of rocks and soil to slide down. This is referred to as **landslide**. It occurs in mountain ranges. Huge sheets of ice called **glaciers** pick up rocks and soil as it flows.

Write 3 facts about weathering and erosion.

1. _____
2. _____
3. _____

SOURCE 4



Weathering and Erosion

Name _____ Date _____

Directions:

Read each sentence below. Does the sentence describe an instinctive or learned behavior? Put a ✓ check under either **Weathering** or **Erosion**.

	Weathering The wearing down or breaking apart of rocks	Erosion The movement of weathered rocks or soils by water wind, or other causes.
A river moves rocks by carrying them in its current.		
Water freezes in a crack in an asphalt street and a pothole begins to form.		
Small pieces of sand are carried by the wind.		
Water dissolves part of a rock, the result is an underground cave.		
Ocean waves tear sand away from a beach.		
Rocks and pebbles in a river become smooth as they smash into other rocks.		
The roots of a tree break apart rocks beneath the soil.		
Water washes rocks and soils down slopes, causing a mudslide.		
Rain washes soil from hills and fields into rivers		
Boulders beside a river become smaller as water wears them away.		

Weathering and Erosion

Directions: Use the word bank to complete the following sentences.

Word Bank:

weathering erosion sediment deposition landform glacier

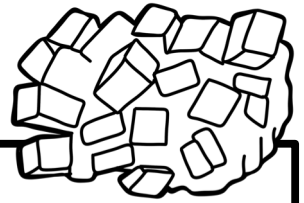
1. The dropping of weathered rock by wind or moving water is called_____.
2. Very small pieces of rock such as sand and silt are called _____.
3. The process of moving weathered rock from one place to another is called _____.
4. The process of rock breaking apart is called _____.
5. A large sheet of floating ice is called _____.
6. A _____ is a land feature such as a delta or sand dune.

Multiple Choice

Read the question and select the correct answer.

7. Which of the following is an example of **weathering**?
 - a. Sediment forms at the bottom of the ocean.
 - b. Wind moves rock from one place to another.
 - c. Dust storms carry sediment into the ocean.
 - d. Ice between a rock causes a rock to crack.
8. Which of the following is an example of **erosion**?
 - a. Wind, water, and ice transport sediment to the ocean.
 - b. Ice between a rock causes a rock to crack.
 - c. Flowing water causes rock to tumble and scrape against each other.
 - d. Sediment forms at the bottom of the ocean.
9. Which of the following is an example of **deposition**?
 - a. Wind, water, and ice transport sediment to the ocean.
 - b. Ice between a rock causes a rock to crack.
 - c. Dust storms carry sediment into the ocean.
 - d. Sediment forms at the bottom of the ocean.**
10. Which of the following are examples of **landforms**? **Select all.**
 - a. my cell phone
 - b. delta
 - c. sand dune
 - d. my dog
 - e. baseball bat
 - f. mountain
 - g. glacier
 - h. Ponce de Leon

Rocks and Minerals



Rocks and Minerals

Rock is a solid in nature that is made up of one or more minerals. The Earth's crust is made up of rocks. Rocks form within the Earth and make a large part of our planet.

A **mineral** is any nonliving solid that has a crystal form. There are more than 4,700 kinds of minerals found on Earth. They have naturally formed in different places like caves, underground, and even in air.

Mineral crystals have particles that are combined to form a shape that is repeated over and over again. Crystals are identified according to their repeated structure. Every mineral is composed of the same set of nonliving things called **elements**.

Properties of Minerals

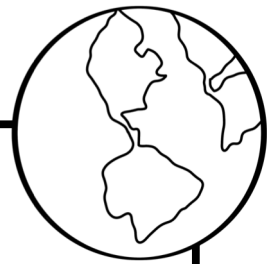
Minerals are identified by studying their physical properties.

Hardness is the mineral's ability to scratch another mineral. Mohs' scale is used to compare the hardness of minerals. Talc, which is the softest mineral, has a score of 1. It can be scratched by other minerals. Diamond, which is the hardest mineral, has a score of 10.

Luster is another mineral property which describes how minerals reflect light. Luster can be described with the use of terms like **metallic**, **earthy** and **glassy**. Minerals with metallic luster are copper, gold and silver. Gypsum and talc both have earthy luster.

Write 3 facts about rocks and minerals.

1. _____
2. _____
3. _____



SOURCE 1

Renewable Resources

What is a resource? A resource is any material on Earth that living things use. Some of Earth's resources are renewable. A **renewable resource** is a resource that can be replaced relatively quickly. These resources are used over and over again, such as water and air. Water and air are replenished quickly so that we can continue to use them. Water is replenished through the water cycle. Other resources come from nature. A tree is a renewable resource. When a tree is cut down to make everyday items such as paper, a new tree can be planted to replace the old one. It can take a while to grow a tree, so it is important to use our resources wisely. The wise use of resources is called **conservation**. Some sources of energy are called renewable energy. Renewable energy consists of solar energy, wind energy, hydroelectric energy, and geothermal energy. These energy sources are replaced quickly and easily. They also provide a great alternative to nonrenewable sources of energy.

SOURCE 2

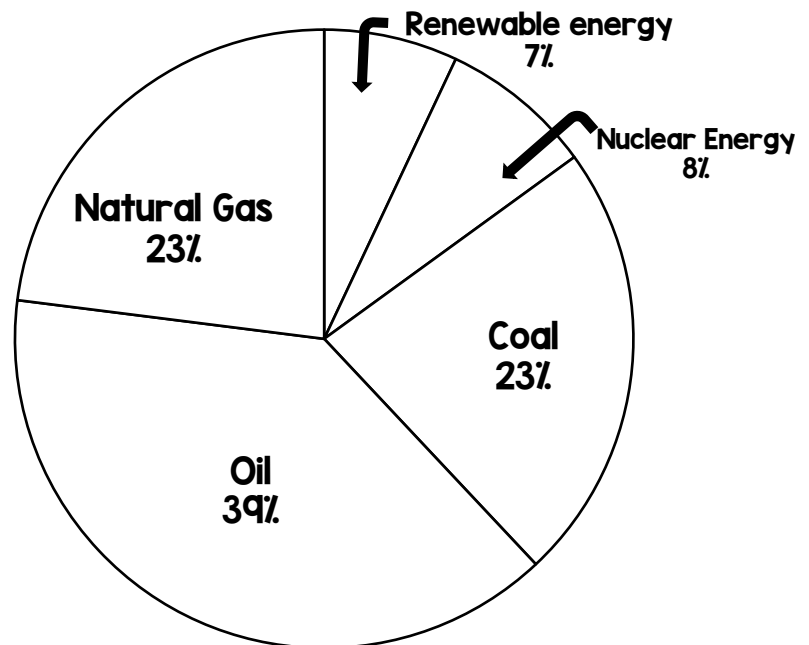
Nonrenewable Resources

Nonrenewable resources are resources that cannot be replaced quickly. A **nonrenewable resource** takes a long time to form, such as fossil fuel. Coal, oil, and natural gas are examples of fossil fuels. We use fossil fuels to produce electricity as well as to run planes, cars, and other vehicles. These resources are considered nonrenewable resources because once we use all of the resource, it cannot be replaced. We can conserve fossil fuels by turning off lights when we leave a room or using renewable sources of energy. Soil is an example of nonrenewable resource. It takes hundreds of years to form from weathered rock, dead plants and animals. Rocks and minerals are nonrenewable resources because it takes a long time for these resources to form.

SOURCE 3

Pie Graph

Percentage of Different Resources
Used to Produce Electricity in U.S.



This graph shows the percentage of resources used in the United States. Think about how much of our energy is renewable versus nonrenewable.

Earth's Resources



Name _____ Date _____

Renewable Resources

1. A _____ is any material on Earth that living things use.
2. Which type of resources can be replaced relatively quickly?
 - a. Repeating resources
 - b. Nonrepeating resources
 - c. Renewable resources
 - d. Nonrenewable resources
3. The wise use of resources is called _____.
4. Which of the following shows how to conserve renewable resources? Select all.
 - a. Planting trees
 - b. Using too much water than needed
 - c. Wasting paper
 - d. Not throwing garbage in bodies of water

Nonrenewable Resources

5. Which type of resources cannot be replaced quickly?
 - a. Repeating resources
 - b. Nonrepeating resources
 - c. Renewable resources
 - d. Nonrenewable resources
6. _____ is used to produce electricity as well as to run planes, cars, and other vehicles.
7. How can we conserve fossil fuels? _____



Directions: Complete the questions below.

1. What is matter? _____
2. What are the 3 states of matter? _____
3. Which state of matter has a defined shape? _____
4. Which state of matter has no defined shape and no defined volume? _____
5. Which state of matter has a defined volume but no defined shape? _____
6. Describe the particles inside a **solid**. _____
7. Describe the particles inside a **liquid**. _____
8. Describe the particles inside a **gas**. _____
9. _____ is the process by which a liquid changes into a gas.
10. _____ is the process by which a gas changes into a liquid.

Classify the matter below into SOLID, LIQUID, OR GAS.

steam

wood

rain

water vapor

rock

pencil

cell phone

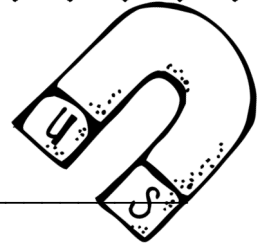
milk

notebook

air

SOLID	LIQUID	GAS

Magnets



Name _____

Date _____

1. What is a **magnet**? _____
2. A **magnetic field** is _____

3. A(n) _____ is the part of the magnet where the force is strongest.
4. A(n) _____ is a magnet that is made with a battery.
5. The end of a magnet is called a _____.
6. Any material that pulls iron to it is a (n) _____.
7. In the picture to the right, the poles that are closest to one another will (**repel, attract**) _____ because they are _____ (**like, unlike**) poles.
8. In the picture to the right, the poles that are closest to one another will (**repel, attract**) _____ because they are _____ (**like, unlike**) poles.



Is it attracted by a Magnet?

Write **YES** or **NO** on the line next to the picture.

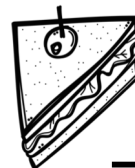


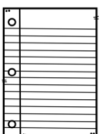
















Forms of Energy

Name _____ Date _____

Science Fusion Book Read pages 204-216

1. The ability to cause change in matter is called _____.
2. Where do people get their energy from?
 - a. television
 - b. talking with friends
 - c. food
 - d. batteries
3. _____ is the energy of motion.
4. _____ is the energy something has because of its position or condition.
5. _____ is the total potential and kinetic energy of an object.
6. When a roller coaster goes down a hill this is _____ energy.
7. If you were to stretch back a rubber band to get ready to shoot it through the air, what type of energy would this be
_____.
8. Give one example of light energy. _____
9. Sound energy is created by _____.
10. Energy that is released by a chemical change is called _____.
11. Energy that comes from electric current is called _____.



Light or sound energy?













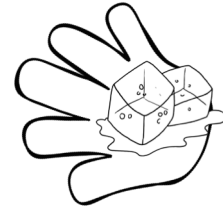
Heat



Name _____ Date _____

1. What is heat energy?

2. _____ is the transfer, or movement, of heat between two objects that are touching.
3. _____ is the transfer of heat within a liquid or gas.
4. _____ is the transfer of heat without matter to carry it.
5. How does heat get from the Sun to Earth?
 - a. convection
 - b. conduction
 - c. radiation
 - d. insulation
6. Oscar is holding an ice cube in his hand. The ice cube begins to melt. What causes the ice cube to melt?
 - a. The heat from his hand transferred to the ice cube.
 - b. The cold from the ice cube transferred to his hand.
 - c. The heat from the ice cube transferred to his hand.
 - d. The heat and cold energy moved back and forth.



True or False?

7. Heat always moves from the cooler object to the warmer object. _____
8. Heat always moves from the warmer object to the cooler object. _____
9. Heat goes back and forth in both directions. _____

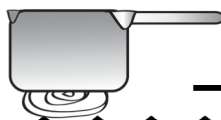
Conduction, Convection, or Radiation?

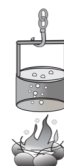
Label each picture. Use each word only once.



campfire

pot on stove





boiling water

Changes in Matter

physical change

chemical change

rust

decay

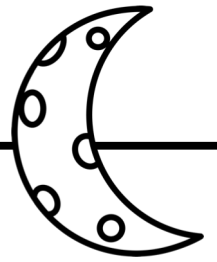
Use the words to complete each sentence.

- _____ a change in which a new substance is not formed
- _____ occurs when one or more substances are changed into entirely new substances
- Over time, dead plants and animal materials _____, or are broken down into simpler substances.
- When iron gets wet, it reacts with oxygen to form _____.

Directions:

Read each sentence below. Does the sentence describe an instinctive or learned behavior? Put a check under either **Physical Change** or **Chemical Change**. ✓

	Physical Change	Chemical Change
bending metal		
freezing water		
cooking an egg		
chopping vegetables for a salad		
boiling spaghetti noodles in a pot		
shredding paper		
a puddle evaporates		
a bike starts to rust after being outside		



SOURCE 1

The Moon

The Moon is Earth's satellite. A satellite is an object in space that circles around a bigger object. During night time, it is considered as the brightest object in the sky. It is much smaller compared to Earth. The moon does not have a light of its own. The moon appears lit at night because it reflects light from the sun.

The moon orbits the Earth the same way that the Earth orbits the Sun. The same side of the Moon faces Earth all the time because it spins once in the same amount of time.

SOURCE 2

Why Moon Phases Happen

If you will observe the moon every night for a month, you'll think that the moon seems to change its shape. One night, you might not find any sight of the moon. After a few nights, you might see a small "slice" of it. What causes the moon to appear differently? The Moon looks as if it changes shape, but it really does not. The amount of the moon's lit side that can be seen from Earth changes as the Moon orbits the Earth. These changes in the Moon's appearance are referred to as MOON PHASES. The movements of the Earth and the Moon cause the phases that we see from Earth. Each phase shows a different shape of the Moon.

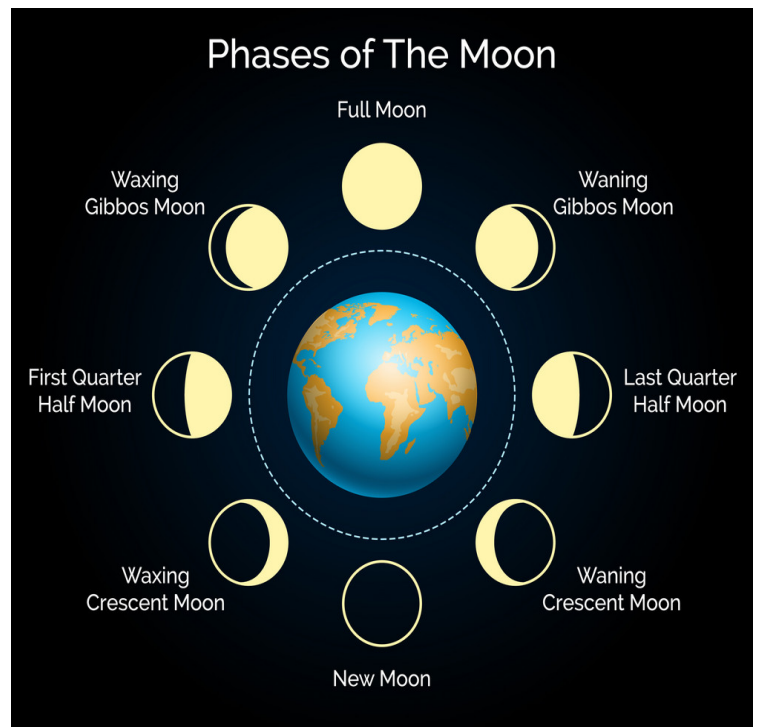
SOURCE 3

Different Moon Phases

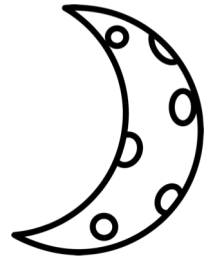
The Moon phases begin with the **new Moon**. In this phase, you will not be able to see the Moon at all. After a few days, you will see a small slice of the Moon in the sky. It appears like a banana. This is called a **crescent Moon**. Next, the **quarter Moon** will appear. This looks like half of a circle. This will be followed by a **gibbous Moon** which appears like a circle with a crescent removed. After that, you will be able to see all of the sunlit side of the moon. This is the **full Moon**. A few days after that, you will see less of the sunlit side, the new Moon will come again. It takes about 1 month to complete all the phases of the Moon, and the cycle repeats.

SOURCE 4

Illustration



MOON PHASES



The MOON

1. Which of the following best describes what the moon is?
 - a. a satellite that has the same size as the Earth
 - b. a satellite that circles around the Earth
 - c. a satellite that circles around the sun
 - d. a satellite that spins together with the Earth

 2. Which of the following statements about the moon is true? Select all
 - a. It is considered as the brightest object in the sky during night time.
 - b. It is much bigger than Earth.
 - c. It has light of its own.
 - d. The same side of the Moon faces Earth all the time.

 3. Why does the moon appear to have its own light? _____
-

Why MOON PHASES HAPPEN

4. Changes in the Moon's appearance are referred to as _____.
 - a. Moon shapes
 - b. Moon phases
 - c. Moon faces
 - d. Moon shades

5. Why does the moon seem to change its appearance?
 - a. As the moon orbits the Earth, the amount of the moon's lit side that can be seen from Earth changes.
 - b. As the Earth orbits the moon, the amount of the moon's lit side that can be seen from Earth changes.
 - c. The moon changes shape and size every night.
 - d. Earth's shadow causes the moon to look different every night.

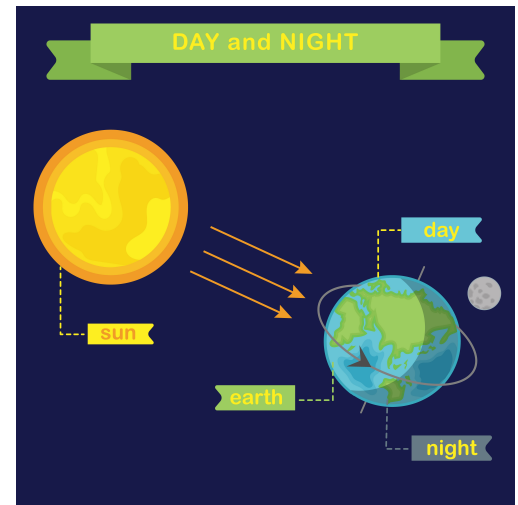


SOURCE 1

Earth's Rotation

Long ago, people used to think that the sun moved around the Earth as it seemed to rise in the east and set in the west. Today, people know that the Earth rotates or spins. To rotate means to turn or spin around a point in the center. Imagine earth as a merry-go-round turning around a pole in the center. The imaginary pole or line is called Earth's axis which runs through the Earth's center, starting at the North Pole going to the South Pole. The earth tilts at 23.5. It takes the earth 24 hours (1 day) to complete one rotation on its axis. As the earth rotates, one side of it faces towards the sun, while the other side faces away from the sun. This explains how Earth's rotation causes day and night.

SOURCE 2



Earth's rotation causes day and night.

SOURCE 3

Earth's Revolution

Have you ever wondered how to two places can have different seasons at the same time of the year? Earth's revolution causes the change of seasons. The Earth revolves around the sun following a path called an orbit. It takes 365 days (1 year) to complete one revolution around the sun. Earth's axis remains tilted in the same direction as the earth revolves around the sun. Different seasons are caused by the tilt of the Earth's axis and its orbit. Earth is divided into halves: the Northern Hemisphere and the Southern Hemisphere. In June, it is summer in the Northern Hemisphere as it gets more rays of sunlight because it is tilted toward the sun. It is winter in the Southern Hemisphere because it gets less sunlight as it is tilted away from the sun.

SOURCE 4



Earth's revolution causes changes in seasons.



Name _____ Date _____

EARTH'S ROTATION

1. Why did people think that the sun moved around the Earth?
 - a. It seemed to rise in the east and set in the west.
 - b. It seemed to move very fast.
 - c. It seemed to move up and down.
 - d. It seemed to change directions as it moved.
2. What does rotation mean?
 - a. To move up and down
 - b. To go from left to right
 - c. To turn or spin around a point
 - d. To go to another direction quickly
3. The imaginary pole where Earth rotates around is called _____.
4. It takes _____ for the Earth to complete one rotation.
5. What is caused by earth's rotation?
 - a. Days of the week
 - b. Months of the year
 - c. Changes in seasons
 - d. Day and night

EARTH'S REVOLUTION

6. The Earth revolves around the sun following a path called _____.
7. What happens to the Earth's axis as the earth revolves around the sun?
 - a. It remains tilted in the same direction.
 - b. It moves away from the center.
 - c. It divides the earth in two unequal parts.
 - d. It becomes tilted on the other direction.
8. It takes _____ to complete one revolution around the sun.

FORCE AND MOTION

Name _____ Date _____

position	motion	speed	velocity
friction	force	gravity	acceleration

1. _____ any change in velocity
2. _____ a push or pull
3. _____ tells you how the position of an object changes during a certain amount of time
4. _____ a change in position
5. _____ the location of an object in relation to a nearby object or place
6. _____ a force that acts directly against the direction of motion
7. _____ the speed of an object in a particular direction
8. _____ a force that pulls objects down to Earth