

Summer Packet for Fourth Grade Students

Mathematics

Please complete and return to your teacher on the first day of school.

Name _____

Name _____

1 What unit would you use to measure the weight? Write ounce or pound in the blank.





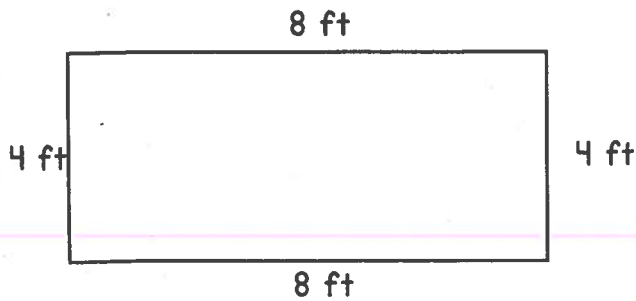






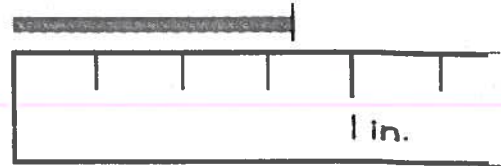


2 What is the area of the figure?



- A 24 sq ft C 32 sq ft
B 16 sq ft D 12 sq ft

3 How long, to the nearest quarter inch, is the string?



4 What would you call the following geometric figure?



- A number line C line segment
B line D ray

5 Convert the following change.

5¢ = _____ nickel

10¢ = _____ nickels

20¢ = _____ nickels

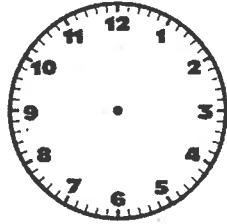
25¢ = _____ nickels

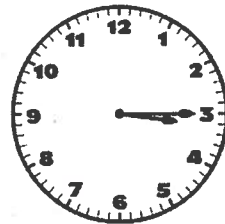
Name _____

1 For each pair of clocks, fill in the missing digital times and hands on the analog clock.

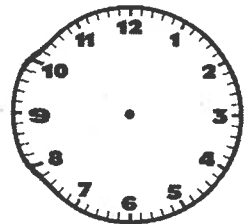


20 minutes earlier

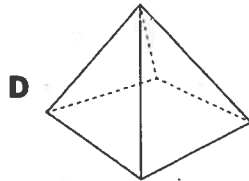
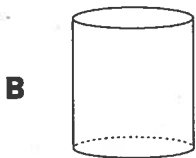
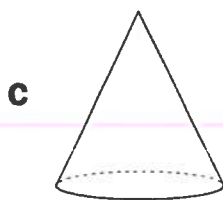
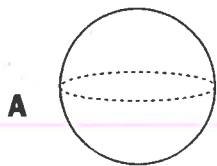




20 minutes later



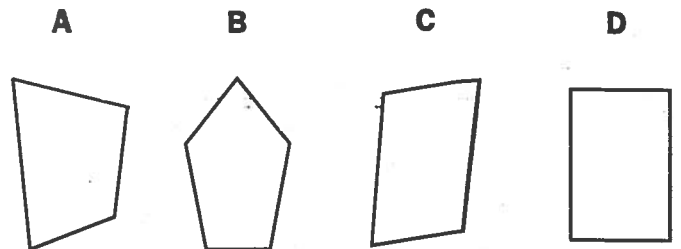
2 I have one flat surface. I have 1 vertex. You can trace my flat surface to make a circle. Which shape am I?



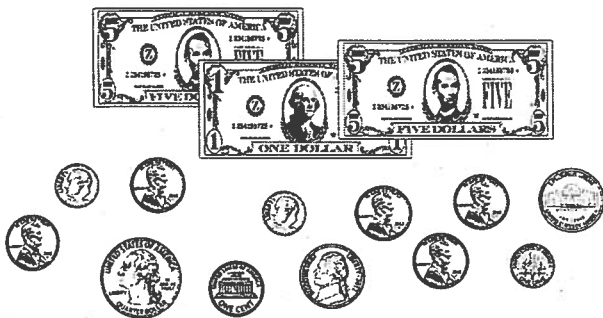
3 Using the clues below to answer.

- It is not a parallelogram
- It is not a trapezoid
- It is not a rectangle
- It is not a square

Which is the correct quadrilateral?



4 Marisa had the following coins and bills in her purse. How much money does Marisa have?



5 Tracy wanted to build a fence for her square garden. If one side of her garden is 14 feet, how many feet of fencing does Tracy need?

- A 56 feet C 28 feet
 B 14 feet D 42 feet

Name _____

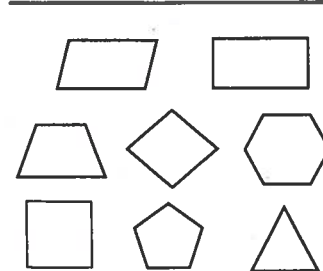
1 Use the word bank to classify the two dimensional figures.

Two Pairs of Parallel Lines

More Than Two Pairs of Parallel Lines

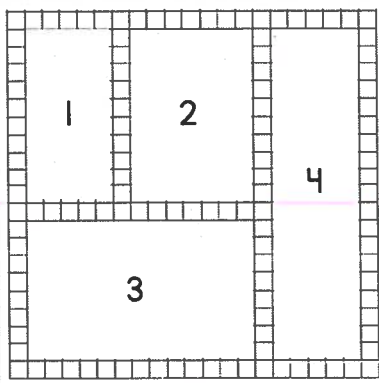
Less Than Two Pairs of Parallel Lines

No Parallel Lines



- WORD BANK**
- Square
 - Triangle
 - Pentagon
 - Trapezoid
 - Hexagon
 - Rhombus
 - Rectangle
 - Parallelogram

2 Jara drew figures 1, 2, 3 and 4 on the grid below.



Which figure has an area of 95 sq. units?

- A Figure 1
- B Figure 2
- C Figure 3
- D Figure 4

3 Laslo has 1 hour 30 minutes before he needs to get ready for bed. He played video games for 45 minutes and played in his backyard the rest of the time. How long did Laslo play in his backyard?

- A 45 minutes
- B 25 minutes
- C 35 minutes
- D 75 minutes

4 Martin wants to estimate the amount of water in his fish tank. Which measurement tool should he use?

- A A scale that measure liquid in pounds
- B A ruler that measures liquid in inches
- C A container that measures liquid in cups
- D A string to see how deep the water is

5 The chart shows how many coins each child has.

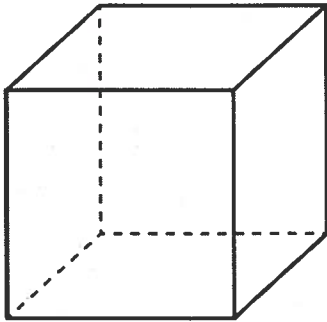
Coin				
Chris	2	1	2	7
Kate	3	1	1	2
Neal	1	4	3	7
Sara	2	2	1	2

Who has exactly 87¢?

- A Chris
- B Kate
- C Neal
- D Sara

Name _____

1 Use the diagram to complete the following statements.



I have _____ faces.

I have _____ edges.

I have _____ vertices.

I am a _____.

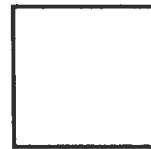
2 Look at the objects below.



What attribute do they share?

- A 2 bases C 2 vertices
B 4 angles D 4 faces

3 Mrs. Joy's classroom is shaped like the figure below.



Which best describes the figure?

- A There is only one pair of parallel sides.
B Exactly two sides are equal.
C It has zero right angles.
D All four sides are equal.

4 What is the area of the square?

6 in.



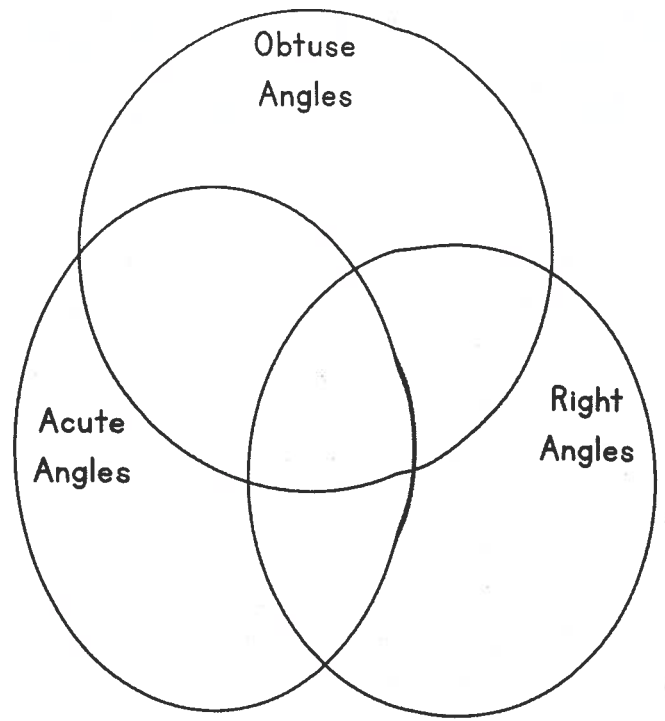
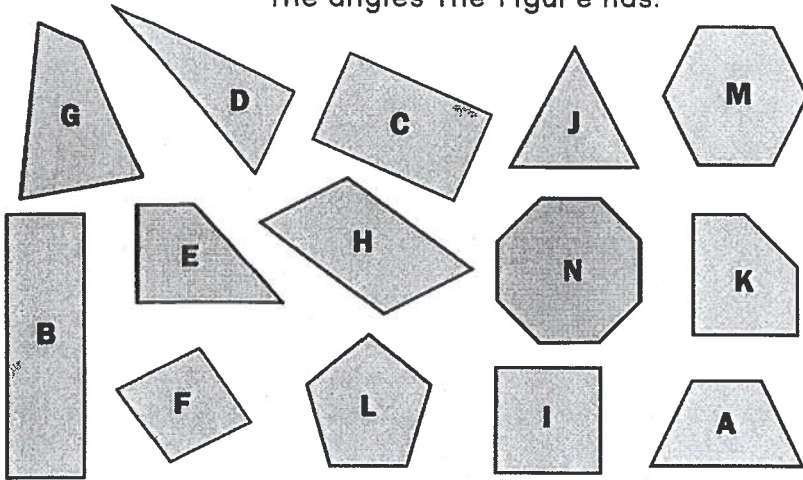
- A 12 sq in C 24 sq in
B 36 sq in D 18 sq in

5 Julie has 2 quarters, 2 dimes and one nickel. What coin does she need to make \$1.00?

- A dime
B nickel
C quarter
D half dollar

Name _____

- 1 To classify these polygons, write the letter of each figure in the space that describes the angles the figure has.

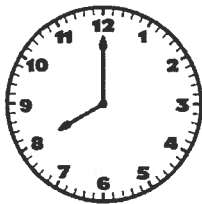


- 2 When John bought soft drinks at the store, he most likely bought them by the....

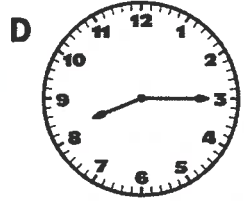
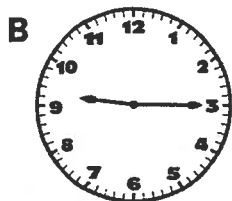
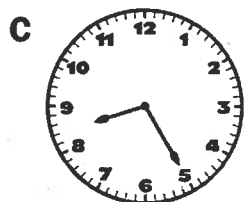
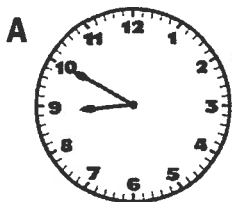
- A gram C liter
B kilogram D pound

- 3 Nell counted the square tiles on the floor of her classroom. Each tile has an area of one square foot. There were 28 rows with 9 tiles in each row. What is the area of the classroom?
- _____

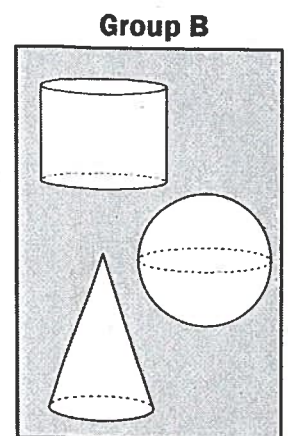
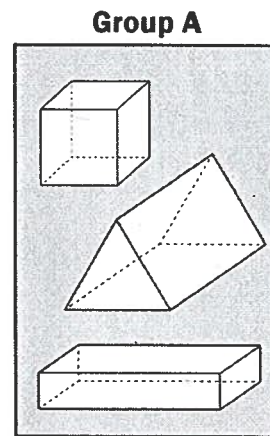
- 4 Braxton and Tim started a race at 8:00 am. Braxton finished in 50 minutes.



If Tim finished 25 minutes after Braxton, which clock shows the time Tim finished?



- 5 Amisha sorted some figures into 2 groups.



- Which statement about the figures is true?
- A All the faces of the figures in Group A are rectangles.
B The figures in Group B have no flat surfaces.
C The figures in Group B have a curved surface.
D The figures in Group A have 8 vertices.

Summer Reading

During the summer, the students will be required to read and record their books on their Reading Logs, like they did all year. The attached papers contain two logs-one for July and one for August. They must have 20 entries on each log and must read at least 20 minutes a night. It is the same system that we used all year regarding the Reading Logs. This will be the only assignments that they will be required to do over the summer for ELA. They must be brought in and given to their homeroom teacher the first week of school.

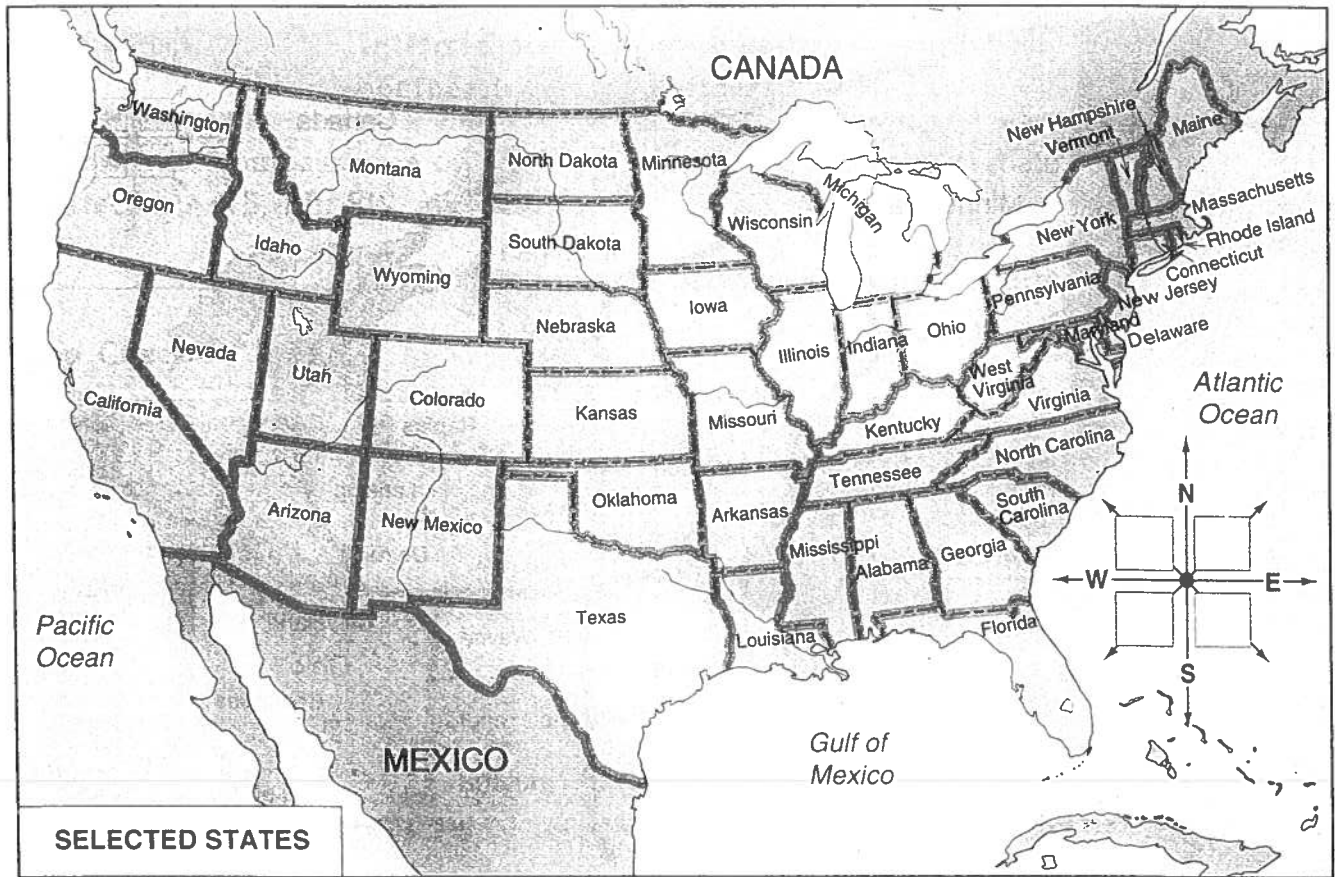
Have a wonderful Summer!!!

Social Studies Summer Packet for Fourth
Grade Students

Please complete and return your packet to your
fifth grade teacher on the first day of school.

Name _____

Using Intermediate Directions



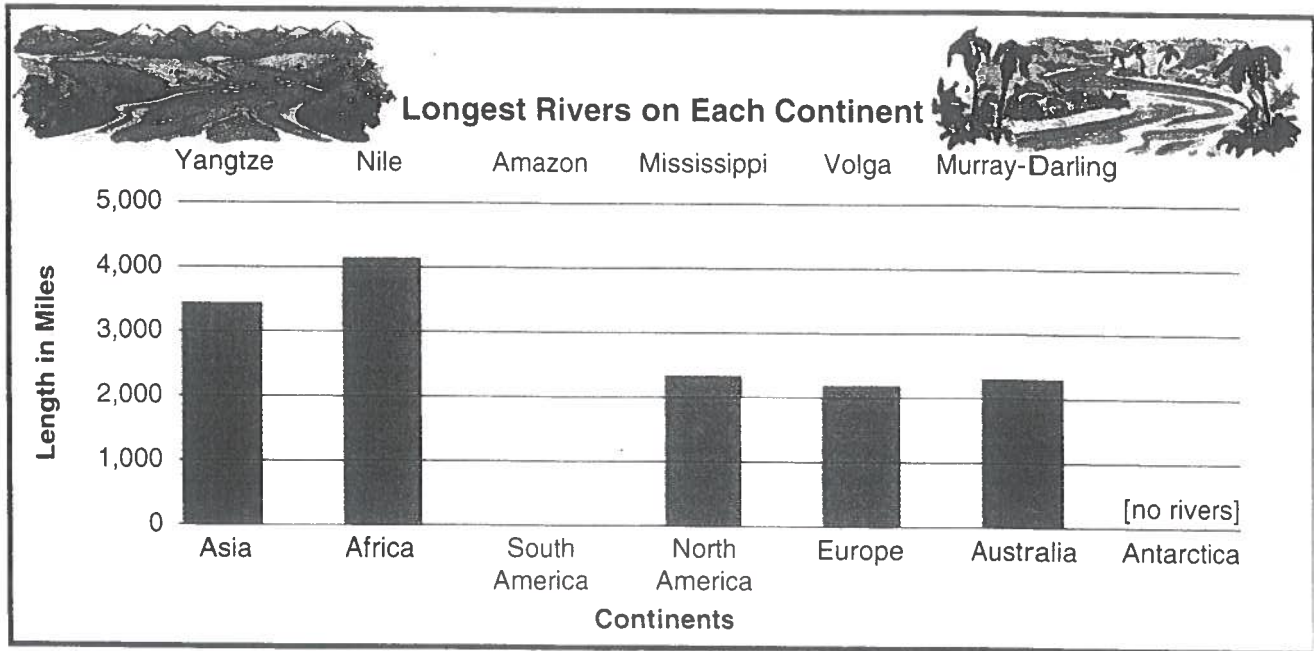
MAP ATTACK!

Follow the steps on page 16 to begin reading this map.

1. Find Colorado on the map. Circle the label.
 - a. Which state is to the northeast of Colorado? _____
 - b. Which state is to the southeast of Colorado? _____
 - c. Which state is to the southwest of Colorado? _____
 - d. Which state is to the northwest of Colorado? _____
2. Find each state below. In which part of the United States is it located? Write NE, SE, SW, or NW.

a. Arizona _____	b. New York _____	c. Massachusetts _____
d. Georgia _____	e. Oregon _____	f. South Carolina _____
g. New Jersey _____	h. Florida _____	i. Pennsylvania _____

Reading a Bar Graph



GRAPH ATTACK!

Follow these steps to read the bar graph.

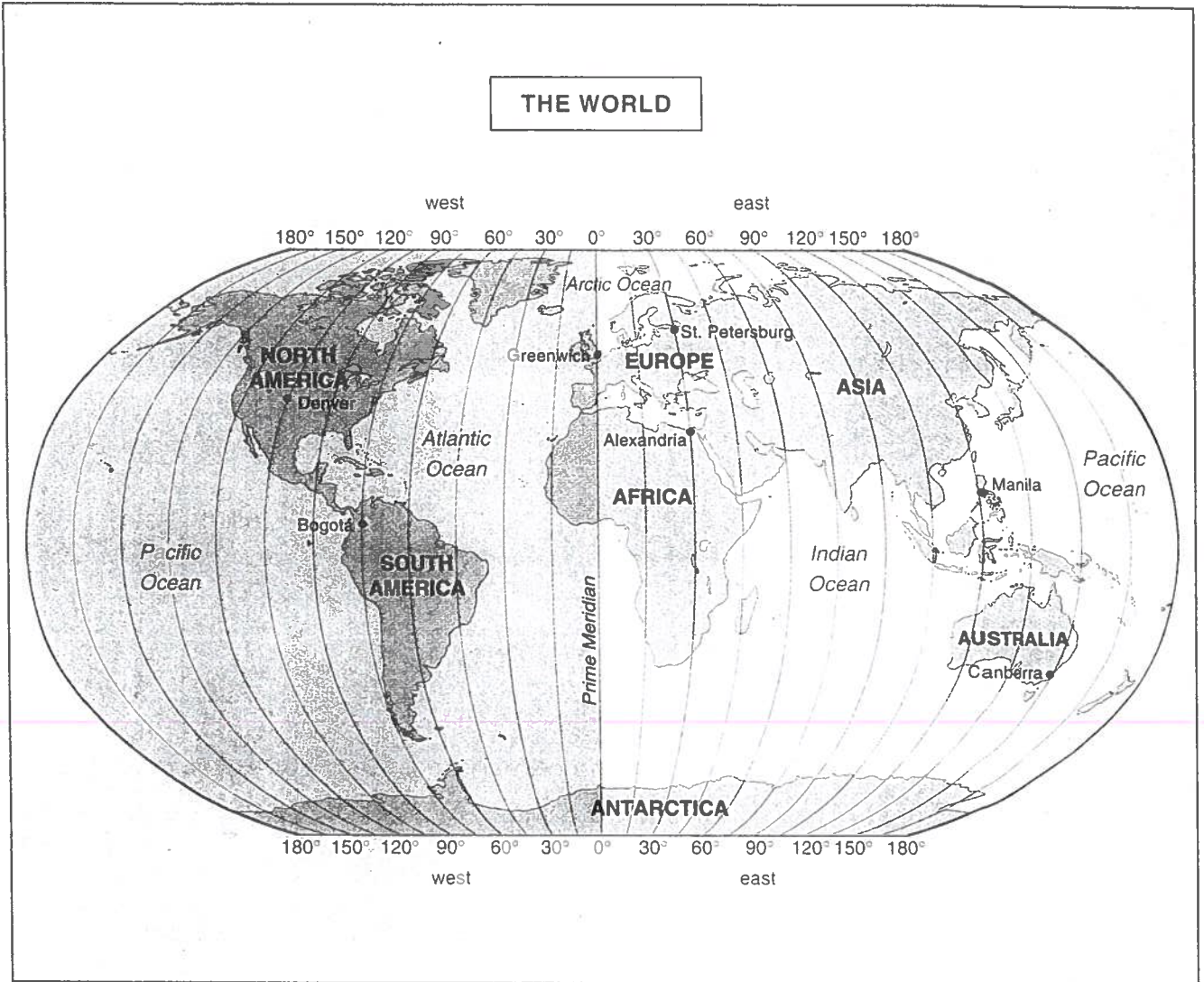
1. Read the title. This bar graph shows _____

2. Read the words at the bottom of the graph. The bars on this graph show rivers on the _____

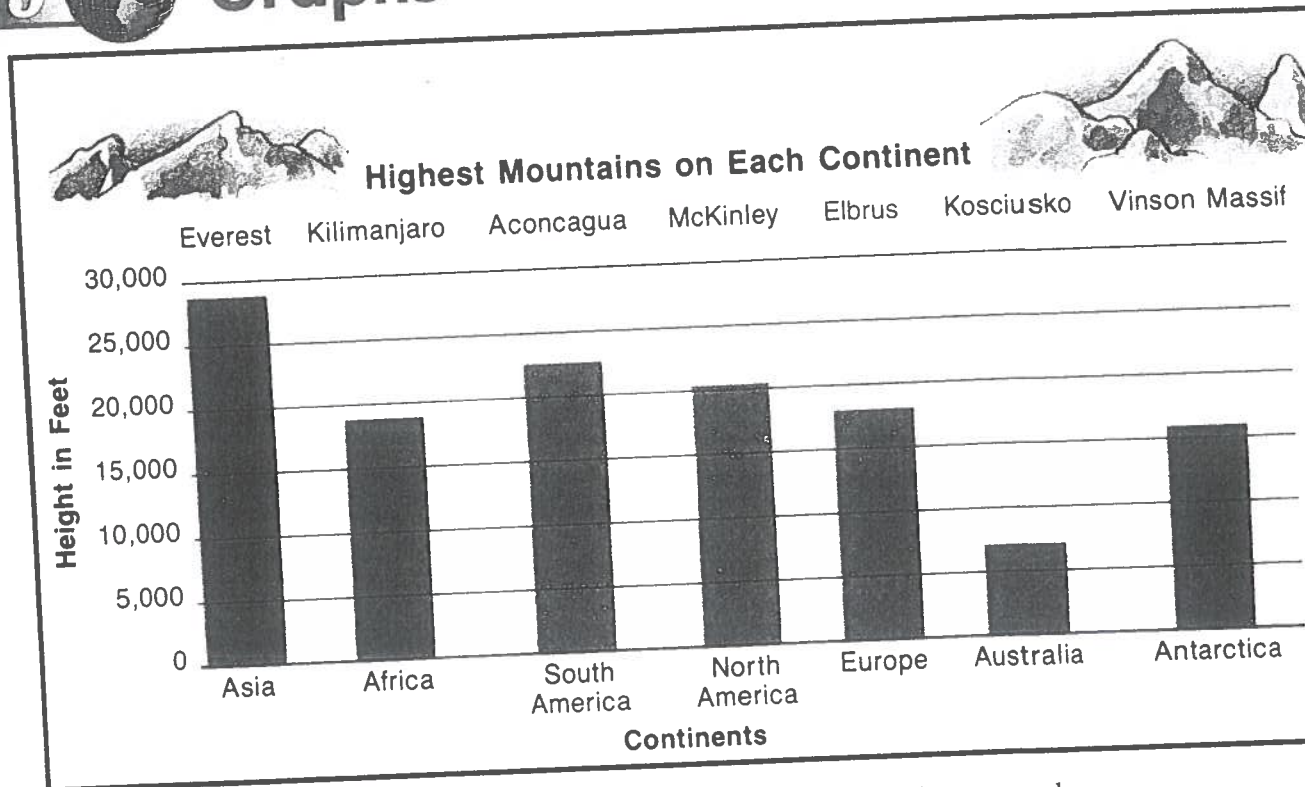
3. Read the words and numbers at the left of the graph. The numbers on this graph stand for _____

4. Add to the graph. The Amazon River in South America is 4,000 miles long. Add a bar showing the length of the Amazon River.
5. Compare the bars. Read the longest and the shortest bars.
 - a. Which continent has the longest river? _____
 - b. About how long is it? _____
 - c. Which continent has the shortest river? _____
 - d. Which continent has no rivers? _____
6. Draw a conclusion. Which three continents have the longest rivers?

Finding Longitude



1. What two cities are at 30°E? _____
2. What city is at 105°W? _____
3. What city is near 120°E? _____
4. What city is at 150°E? _____
5. What city is at 75°W? _____
6. What city is on the Prime Meridian? _____
7. What direction would you go from Alexandria to Canberra? _____
8. What direction would you go from Bogotá to St. Petersburg? _____



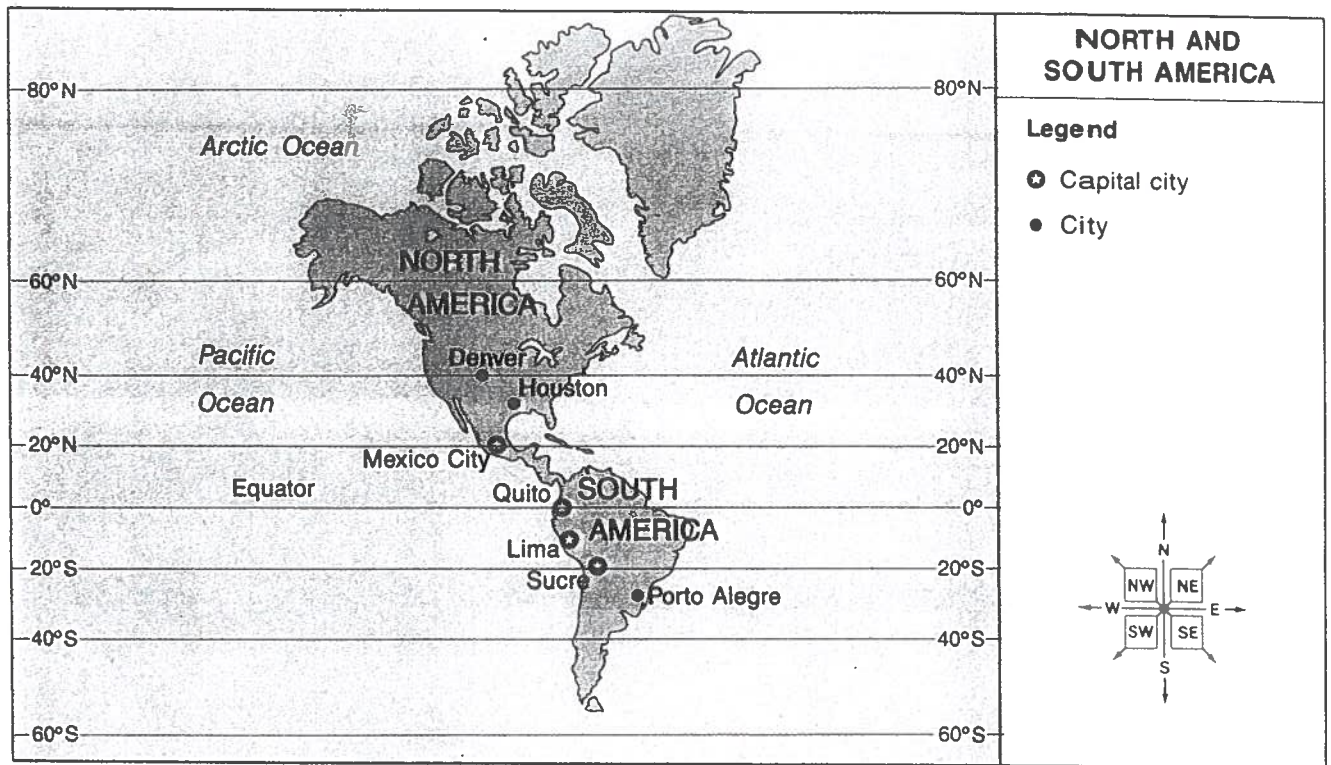
Bar graphs show information by using bars. Some students made a bar graph to compare the highest mountains on each continent.

GRAPH ATTACK!

Follow these steps to read the bar graph.

1. Read the title. This bar graph shows _____
2. Read the words at the bottom of the graph. This graph has a colored bar for each of seven _____
3. Read the words and numbers at the left of the graph. The numbers on the graph stand for _____
4. Compare the bars. Read the longest and shortest bars. Put your finger at the top of the bar for Mt. Everest. Slide your finger to the left. Read the number there.
Mt. Everest is about _____ feet high.
How high is Mt. Kosciusko? about _____ feet
5. Draw a conclusion. Which continents have the three highest mountains?

Finding Latitude



Degrees of latitude north of the Equator are marked with an N for north. Degrees of latitude south of the Equator are marked with an S for south.

1. Find the Equator. Trace it in red.

What city lies on the Equator? _____

2. Find 20°N. Trace that line of latitude in green.

What city lies at 20°N? _____

3. Find 20°S. Trace that line of latitude in orange.

What city lies at 20°S? _____

4. Find 40°N. Trace that line of latitude in yellow.

What city lies at 40°N? _____

5. Find Houston on the map. Circle it in green.

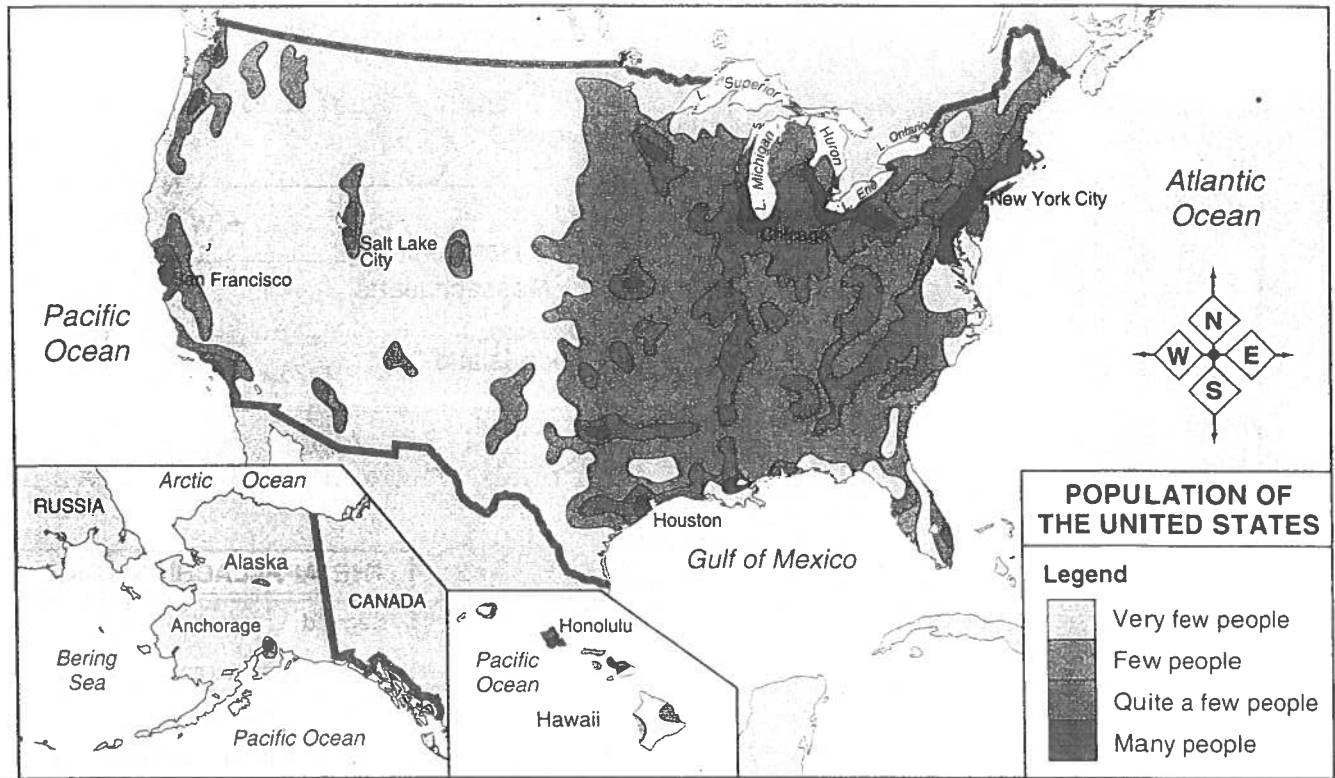
Houston lies half way between 20°N and 40°N.

Houston lies on what line of latitude? Make an estimate. _____

6. Find Lima on the map. Circle it in red.

Lima lies on what line of latitude? Make an estimate. _____

Reading a Population Map



Population is the number of people who live in a place. Look at the population map above. It shows you how many people live in different areas of the United States.

1. Which color shows that many people live in an area?

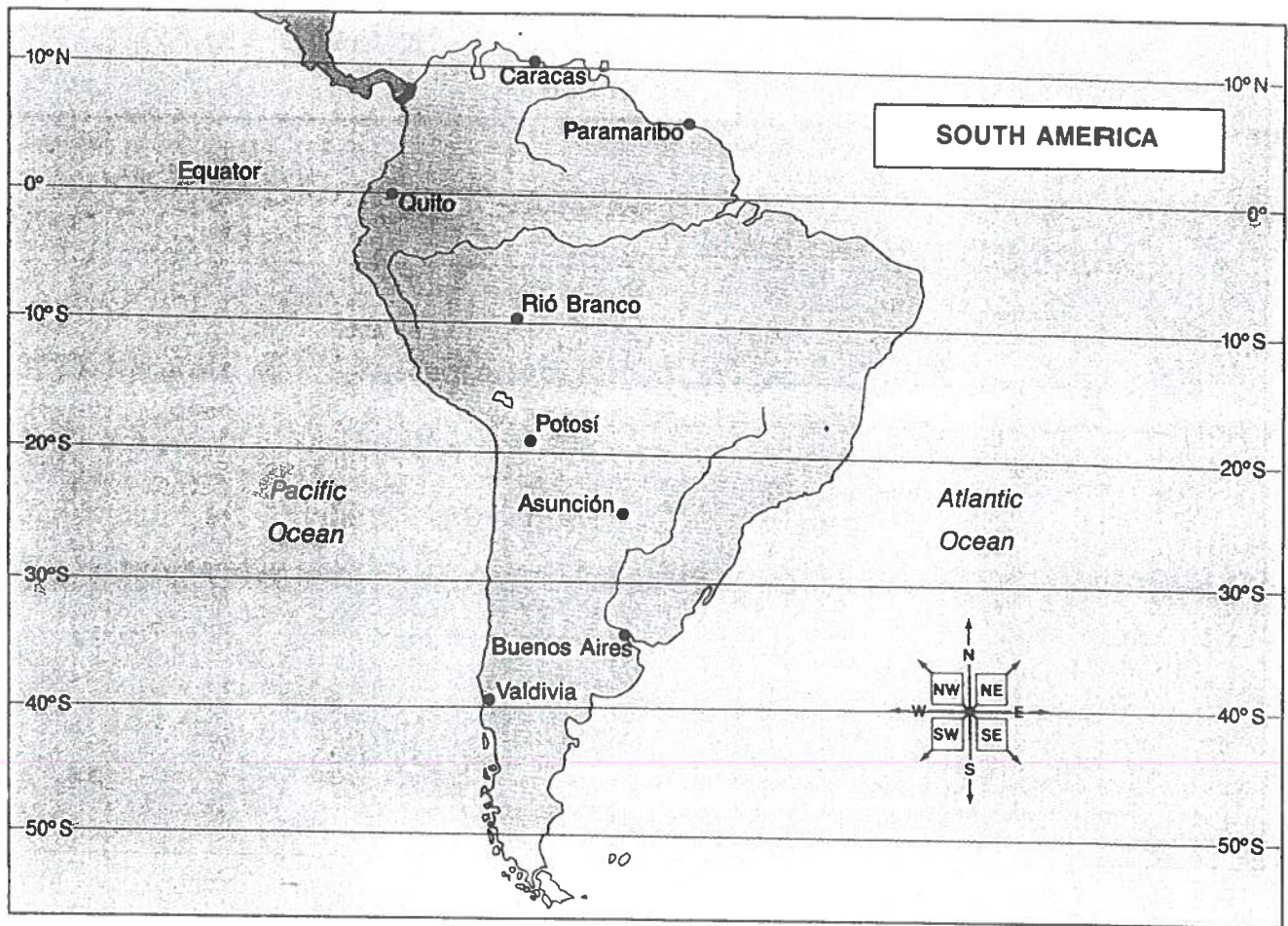
2. Find the area where you live on the map. What color is your area?

3. Find Houston on the map. Do many or very few people live there?

4. Find Chicago on the map. Do many or few people live there?

5. Why do you think people want to live in these areas of our country?

Finding Latitude



1. What city lies on the Equator? _____
2. What city lies near 20°S? _____
3. What city lies at 10°N? _____
4. What city lies at 40°S? _____
5. What city lies between 0° and 10°N? _____
 Estimate its line of latitude. _____
6. What city lies between 20°S and 30°S? _____
 Estimate its line of latitude. _____
7. What city lies between 30°S and 40°S? _____
 Estimate its line of latitude. _____

Summer Packet for Fourth Grade Students

Please complete and return
your packet to your fifth grade
teacher on the first day of
school.

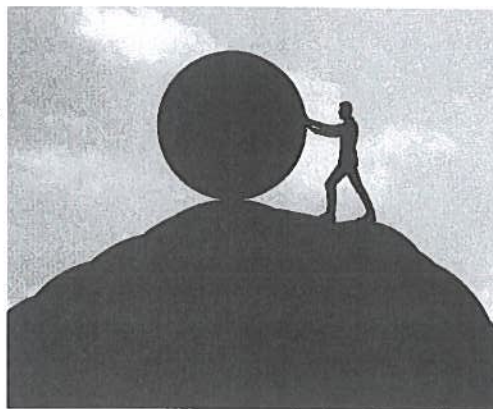
Name _____

Name: _____ Date: _____

Directions: Read the text, and answer the questions.

Speed and Energy

Energy is the ability to do work. There are two main types of energy. There is the energy of motion, which is called kinetic energy. There is also stored energy, which is called potential energy. A ball sitting on top of a hill has a lot of stored energy. The stored energy will change to movement when the ball rolls down the hill. The faster the ball rolls, the more kinetic energy it has.



- What is energy?
 - The ability to be still.
 - The ability to do work.
 - a ball
 - a hill
- If something is moving fast, what does it have a lot of?
 - potential energy
 - kinetic energy
 - thermal energy
 - chemical energy
- If a ball is placed up high, what kind of energy does it have?
 - kinetic
 - potential
 - chemical
 - thermal
- If a ball is sitting on top of a hill, when will its potential energy change to kinetic energy?
 - when it rolls down the hill
 - when it stops rolling
 - when it changes colors
 - when it changes temperature
- If one ball is rolling slowly and another ball is rolling quickly, which one has more kinetic energy? How do you know?

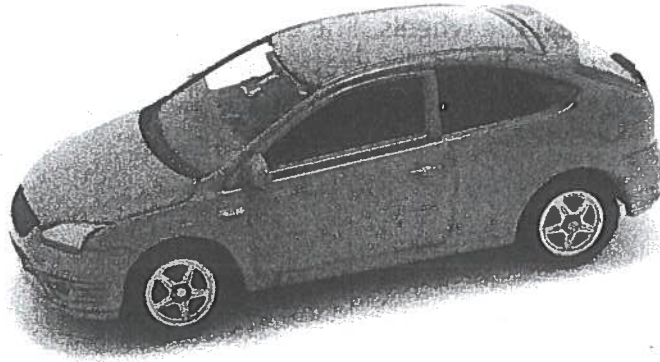
Name: _____ Date: _____

Directions: Read the text, and answer the questions.

Fast and Furious

Energy is the ability to do work. Energy can't be created or destroyed. It can be changed or transferred between objects.

Have you ever played with a wind-up car? When you pull it back and let go, it moves forward. The car has a spring inside that winds up tight when you pull the car back. The spring has stored energy, or potential energy. When you let it go, the spring unwinds and transfers its energy to the wheels. The potential energy changes to kinetic energy, or movement. How far it goes depends on how far you pull it back.



1. What is kinetic energy?

- | | |
|-------------|--------------|
| a. movement | b. stillness |
| c. heat | d. radiation |

2. What is potential energy?

- | | |
|--------------|------------------|
| a. movement | b. stored energy |
| c. radiation | d. heat |

3. What can happen to energy?

- | | |
|---------------------------|-------------------------|
| a. It can be created. | b. It can be destroyed. |
| c. It can be transferred. | d. none of the above |

4. How can you get the car to go as far as possible?

Name: _____ Date: _____

Directions: Read the text, and answer the questions.

How Light Helps Us See

Without light, we cannot see. For us to see an object, light must be reflected into our eyes. Light changes direction when it reflects off an object. Every object we can see reflects some light. Mirrors reflect all light, which is why they show a good image of what they're pointed at.

Light can also be absorbed or refracted. When light is absorbed, it is stopped. Most objects absorb some light and reflect the rest. When light is refracted, the light bends. You can see this when you put a pencil or a straw in a glass of water. Rainbows are also made when light bends through water droplets in the air.



Refraction

1. Why can't you see objects when there is no light?
 - a. No light is reflected into our eyes.
 - b. Too much light is reflected into our eyes.
 - c. A little bit of light is reflected into our eyes.
 - d. They absorb all of the light.
2. What must reflect into our eyes for us to see?
 - a. absorption
 - b. darkness
 - c. light
 - d. refraction
3. Explain why mirrors show a good image of what they are pointed at.



Name: _____ Date: _____

Directions: Read the text, and answer the questions.

Volcanoes and Earthquake

Most of the world's volcanoes happen along the boundaries of Earth's tectonic plates. These are the large slabs of slowly moving rock that make up Earth's crust. Volcanoes happen here because the space between the plates allows magma to flow to the surface. This is also where most earthquakes happen. If you plot all of Earth's volcanoes and earthquakes on a map, you will see this pattern.



There are several big fault lines that form something called the Pacific Ring of Fire. It runs around the Pacific Ocean. Here you can find many volcanoes and earthquakes. There are also ocean trenches and mountain trenches. These are all created by Earth's moving plates.

1. Where do most earthquakes and volcanoes occur?
 - a. in deserts
 - b. between tectonic plates
 - c. in Japan
 - d. in the Atlantic Ocean
2. You can find earthquakes, volcanoes, ocean trenches, and mountain trenches along the _____.
 - a. volcano belt
 - b. earthquake band
 - c. Atlantic Ring of Fire
 - d. Pacific Ring of Fire

3. Explain what a tectonic plate is.

4. What is the Pacific Ring of Fire?

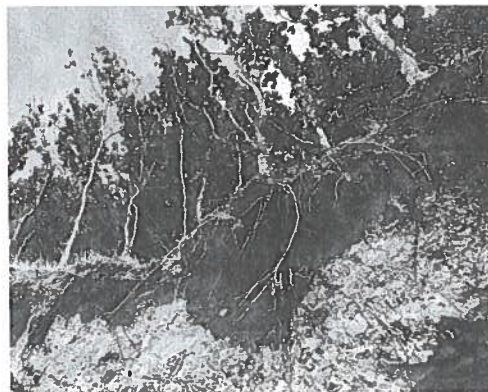


Name: _____ Date: _____

Directions: Read the text, and answer the questions.

How Does Erosion Happen?

Erosion is when layers of Earth's surface, such as soil or rock, are worn away. When this happens, it helps mold landforms, such as seaside cliffs. The soil or rock that is worn away is deposited somewhere else. Erosion usually happens by water or wind. Water and wind can erode soil, sand, and rock. Wind can erode rocks. Erosion can also happen when water seeps into the cracks of rocks and freezes. The water expands when it freezes, and this causes the cracks to become larger. When the water freezes and thaws many times, this can break the rocks apart.



Erosion is a natural process, but humans can cause it to happen more quickly. Things like cutting down trees can make erosion worse because the roots of plants help hold soil together and prevent erosion. This can hurt the environment. It can impact beach coastlines and the quality of soil.

1. What is erosion?

- a. When Earth's surface is worn away.
- b. When Earth's surface is underwater.
- c. When Earth's surface is built up.
- d. When Earth's surface is covered in ice.

2. Erosion can be caused by _____, _____, or _____.

- a. water, ice, environment
- b. water, soil, rocks
- c. water, wind, ice
- d. water, wind, rocks

3. What is something humans do to make erosion happen more quickly?



Name: _____ Date: _____

Directions: Erosion helps shape the land. This process happens over a long period of time. Study the pictures, and answer the questions.



Analyzing Data



1. What is likely eroding this beach?
 - a. seagulls
 - b. humans
 - c. water
 - d. none of these

2. How long might it take for this arch to form?
 - a. 200 years
 - b. 2 weeks
 - c. 2 days
 - d. 2 months

3. What might happen to the arch over time?

4. What else could contribute to the erosion of the arch?
