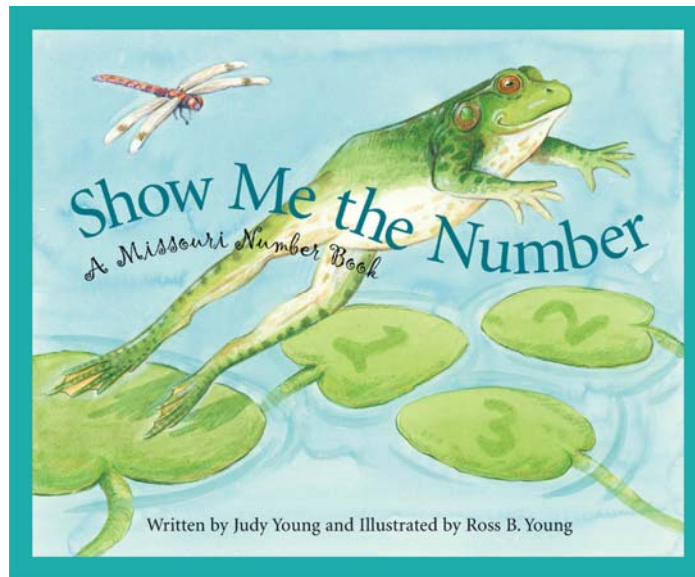


Teacher's Guide



Show Me the Number A Missouri Number Book

Author: Judy Young
Illustrator: Ross B. Young

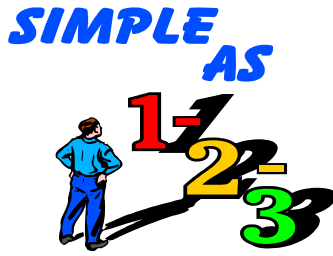
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Ordinal Numbers

The first Olympic Games held in the United States were held in St. Louis, Missouri. Find some of the other firsts connected with these Olympics in *Show Me the Number*.

First, second, and third are ordinal numbers.

Write the ordinal number for each of the following numbers.

1. 8 _____

2. 13 _____

3. 4 _____

4. 22 _____

5. 6 _____

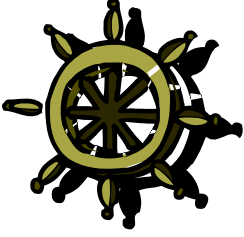
6. 138 _____

7. 10 _____

8. 12 _____

9. 56 _____

10. 100 _____



MARK TWAIN MATH

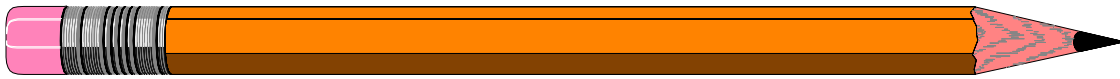
Everyone knows Mark Twain is the author of *The Adventures of Tom Sawyer*. But did you know the term “mark twain” is actually a riverboat term that measures the depth of the water at 12 feet? Discover more about the meaning and history of mark twain in *Show Me the Number*.

One fathom = 6 feet

Mark twain = 2 fathom or 12 feet

Solve

1. 3 fathom = _____
2. 2 mark twain = _____
3. 10 fathom minus 1 mark twain = _____
4. 5 fathom = _____
5. 4 mark twain = _____
6. 16 fathom = _____ mark twain
7. 20 fathom = _____
8. 5 mark twain = _____
9. Number of fathom in 90 feet = _____
10. Number of fathom in 120 feet = _____



MISSOURI CROSSWORD

All of the answers to this crossword can be found by searching through *Show Me the Number*.

M _____
I _____
S _____
S _____
O _____
U _____
R _____
I _____

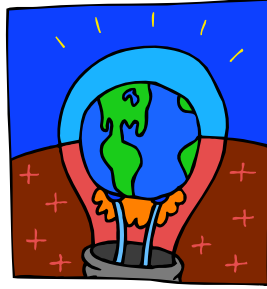
1. Cougar is another name for a _____ lion.
2. The Shawnee are a tribe of _____.
3. A _____ is a forested wetland.
4. Twenty eggs equal a _____.
5. St. Louis was the site of the first _____ games in the United States.
6. College or _____
7. A white squirrel is a _____.
8. During a tornado, if you don't have a basement go into a downstairs _____ room.



The Life Cycle of a Bullfrog

Missouri's state amphibian is the bullfrog. Use the descriptions you read in *Show Me the Number* to draw the life stages of a bullfrog. Label each stage.

Make up a chant about a bullfrog.



HOW WATER BECOMES ELECTRICITY SEQUENCING

Can water be used to make electricity? Yes, it can! Read the process that water goes through to generate electricity in *Show Me the Number*.

Cut out each statement and glue them in order on a separate piece of paper. Start with water and end with electricity!

Electricity is sent through the power lines to people's homes.

Water is stored in a reservoir behind a dam.

A generator changes water into electrical energy.

Released water rushes through special gates into turbines.

Potential energy changes to movement energy.

Energy produced by turbine is carried to the generator.

WHO'S WHO IN MISSOURI?

The book *Show Me the Number* is full of interesting facts about people, places, and things found in Missouri. Use the information you find in this book to describe what makes each of the following people famous.

1. Louis Braille _____

2. August Leimbach _____

3. Laura Ingalls Wilder _____

4. Scott Joplin _____

5. Linda Godwin _____

6. Samuel Langhorne Clemens _____

7. Daniel Boone _____

Which person above is your favorite? _____

Explain _____

MAKE IT TRUE

Read the book *Show Me the Number* to find the answer to make each of these statements true.

Write at least two complete sentences explaining why this statement is false.

1. Hydroelectric power is very inefficient.

2. Fish are warm-blooded creatures.

3. Missouri has flown flags from Spain, Great Britain, and France.

4. Mountain lions have always been found in the woods of Missouri.

5. Laura Ingalls Wilder lived her entire life in Missouri.

6. There is no reason to save wetlands.



Pioneer Log Cabin

Laura Ingalls Wilder wrote many books about her life in a log cabin. Did you know much of her life was spent in Missouri? Learn more about this famous author in *Show Me the Number*.

Enjoy making your own miniature log cabin.

Materials

Empty cardboard milk carton

Newspaper

Brown paper bags

Scissors, glue

Construction paper

Cardboard

Brown paint

Directions:

1. Thoroughly wash and dry milk carton.
2. Fold the top together, then cut the pieces that were glued together off and tape the carton together to form a roof.
3. Cut 12-inch-long strips of brown paper bag. Strips should be as wide as the milk carton.
4. Wind the strips around a pencil. Glue loose end down and take off pencil. Make enough logs to cover the carton.
5. Glue logs onto the milk carton walls to make a log cabin.
6. Use cardboard to make a roof. Paint brown, and glue on top.
7. Add windows and door.
8. Place on a large piece of cardboard and add outdoor scenery, people, pets, fire pits, etc.

FRESH BERRIES



Survey and Graph

Berries abound throughout Missouri. Do you like to pick fresh berries? Do you eat the berries as you pick? Find the nine different types of berry that grow in Missouri in *Show Me the Number*.

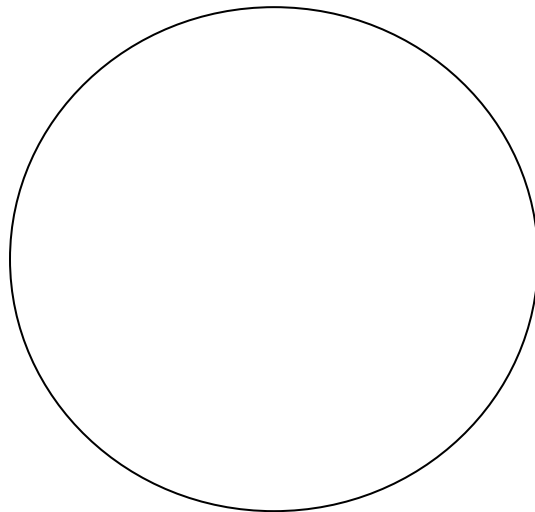
Survey 30 students to see which of the following is their favorite.

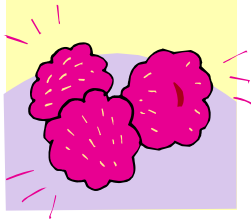
Raspberry

Blackberry

Strawberry

Use the data you collected to make a circle graph showing the results. Remember a circle graph show percents.





Make a Berry Pizza

Berry Pizza

Ingredients

- 1 package of refrigerated cookie dough (plain)
- 1 8-ounce package of cream cheese
- 1/3 cup sugar
- 1/2 teaspoon vanilla extract
- 1/2 cup orange preserves
- Fresh blackberries, raspberries, strawberries, blueberries
- 1 tablespoon water

Directions

1. Preheat oven to 375 degrees. Line an ungreased 14-inch pizza pan with cookie dough cut in 1/8-inch strips. Slightly overlap strips. Bake until light brown. Remove from oven and cool.
2. In a medium bowl, combine cream cheese, sugar, and vanilla extract. Spread over cookie dough. Arrange berries over cream cheese layer in any design you want.
3. In a small saucepan over very low heat, make a glaze by heating preserves and water.
4. Brush glaze over berries, making sure to completely cover the berries.
5. Refrigerate until ready to serve.



TORNADO IN A BOTTLE

A tornado can be very destructive when it touches land. Missouri lies right in the area called “Tornado Alley.” Discover how a tornado is formed in the book *Show Me the Number*.

Create your own tornado in a bottle using the directions below.

Materials

Two 2-liter plastic bottles (soda bottles work well)

1 washer with a 3/8-inch hole in the center

Electric tape

Water

Directions

1. Fill one bottle 2/3 full with water.
2. Place the washer between the tops of the bottles.
3. Tape the bottles together using the electric tape.
4. Make sure you have the washer securely taped between the tops so that no water escapes.
5. Flip the bottles so that the water-filled bottle is on top.
6. Spin the bottles around several times.
7. Observe what is happening to the water.

What scientific conclusions can you make about a tornado?

Show Me the Number Answer Sheet

Ordinal Numbers- 1) eighth 2) thirteenth 3) fourth 4) twenty-second
5) sixth 6) one hundred thirty-eighth 7) tenth 8) twelfth 9) fifty-sixth
10) one hundredth

Mark Twain Math- 1) 18 2) 24 3) 48 4) 30 5) 48 6) 8 7) 120 8) 60
9) 15 10) 20

Missouri Crossword- 1) mountain 2) indians 3) swamp 4) score
5) Olympic 6) university 7) rodent 8) interior

Life Cycle of a Bullfrog- 1) eggs 2) tadpoles 3) frogs

How Water Becomes Electricity-

Water is stored in a reservoir behind a dam.
Released water rushes through special gates into turbine.
Potential energy changes to movement energy.
Energy produced by turbine is carried to generator.
A generator changes water into electrical energy.
Electricity is sent through the power lines to homes.

Who's Who in Missouri-

Braille- invented a dot system for helping blind people read.
Leimbach- sculpted "Madonna of the Trail" statues.
Wilder- author of "Little House" books.
Joplin- composer, "King of Ragtime," wrote "Maple Leaf Rag"
Godwin- astronaut, made 4 space flights
Clemens- wrote *Tom Sawyer* and *Huckleberry Finn*
Boone- pioneer, trail blazer

Make It True- 1) 90% efficient, clean 2) cold-blooded 3) U.S. flag flown,
not British 4) rogue lions, have not lived in Missouri for over 100 years 5)
lived in Wisconsin, Kansas, Minnesota, Iowa, South Dakota
6) important to save plants and animals, good for the environment