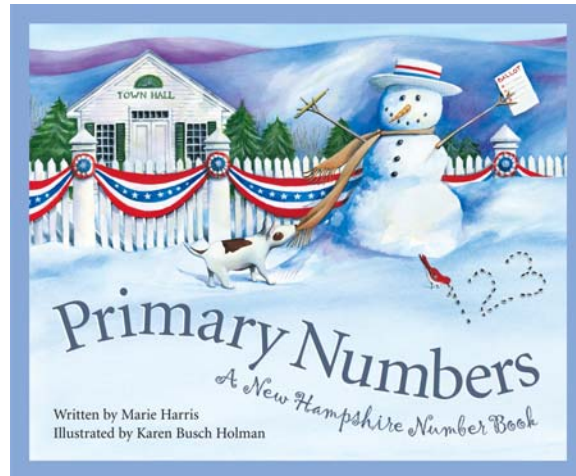


# Teacher's Guide



## **Primary Numbers: A New Hampshire Number Book**

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# Presidential Mountains

New Hampshire boasts a range of mountains within the White Mountains called “The Presidential Range.” Discover what makes these mountains so special in *Primary Numbers*, a number book about New Hampshire.

Place these mountains in order from shortest to tallest. Draw eight mountains from small to large. Label each mountain you drew from shortest to tallest.

Madison (5,363 ft.)  
Adams (5,798 ft.)  
John Quincy Adams (5,410 ft.)  
Jefferson (5,715 ft.)  
Washington (6,288 ft.)  
Monroe (5,385 ft.)  
Eisenhower (4,761 ft.)  
Pierce (5,385 ft.)

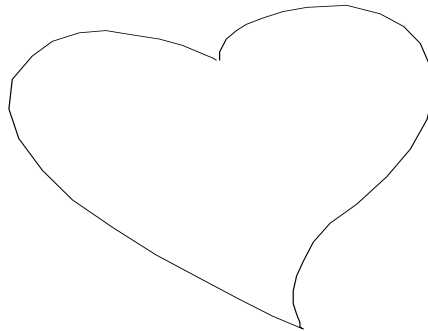
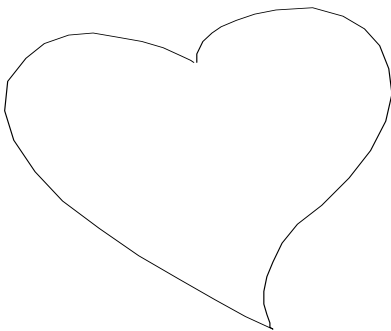
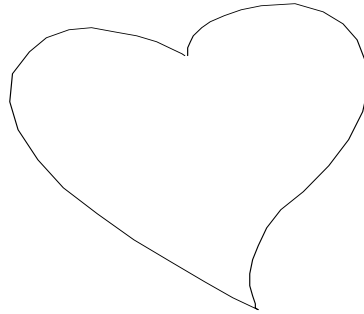
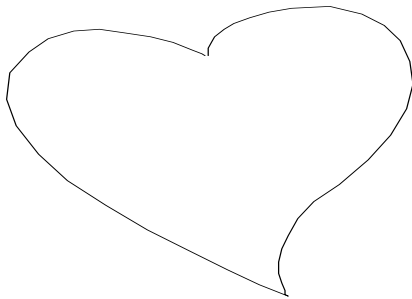




# The Mighty Moose

Moose that help to raise money for a state? How can this be? Discover the role moose in New Hampshire play in raising money in *Primary Numbers*. Pay attention to the many facts given about the moose.

Write one fact about moose in each of the moose hoofprints below.





## Getting Ready for Ice Fishing

Many people in New Hampshire like to go out onto the frozen lakes in the winter to fish. Read about ice fishing in *Primary Numbers*.

Circle the items you need to ice fish.

<b>gloves</b>	<b>auger</b>	<b>cold soda</b>	<b>warm pants</b>
<b>flip-flops</b>	<b>hot chocolate</b>	<b>tip-up</b>	<b>shorts</b>
<b>sunglasses</b>	<b>sled</b>	<b>bicycle</b>	<b>hat</b>

Draw a picture of yourself in all your ice-fishing gear.



## We Came from New Hampshire

*Primary Numbers* is a wonderful book that introduces you to many of the special people who came from New Hampshire.

Match each of the accomplishments below next to the person who was responsible for them.

**made fiddles**

**started Shaker religion**

**made dogsleds**

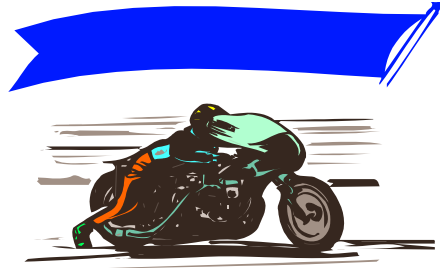
**illustrated *Primary Numbers***

**established the League of Arts and Crafts**

**played for the Yankees**

**author of *Primary Numbers***

1. Ed Moody \_\_\_\_\_
2. Marcel Robidas \_\_\_\_\_
3. Red Rolfe \_\_\_\_\_
4. John Winart \_\_\_\_\_
5. Marie Harris \_\_\_\_\_
6. Ann Lee \_\_\_\_\_
7. Karen Busch Holman \_\_\_\_\_



## MOTORCYCLE MATH

Where is the oldest national motorcycle rally in the country? Why, in New Hampshire, of course! The rally has been happening since 1916.

Explore *Primary Numbers* to find the name of this event. The event is named \_\_\_\_\_.

Solve these motorcycle problems.

1. Ten motorcyclists went on a road trip together. They traveled 20 miles in the morning and 17 miles in the afternoon. How many total miles did the ten motorcyclists go?

2. Jim decided to take his motorcycle on a long road trip. On day one he rode 125 miles. On day two he rode 98 miles. Day three he rode 56 miles and on day four he rode 136 miles. How many miles did he ride one way?

\_\_\_\_\_.  
Round trip \_\_\_\_\_.

3. At motorcycle week there were 3,000 motorcycles present. One-fourth of the motorcycles were black. How many were black? \_\_\_\_\_

One-third of the motorcycles were blue. How many of the motorcycles were neither blue nor black? \_\_\_\_\_

4. Jennifer's motorcycle averages 40 miles per hour. She made a trip that was 7 hours long. How many miles did she travel? \_\_\_\_\_



# Primary Crossword

The book *Primary Numbers* will help you to learn many interesting facts about the state of New Hampshire. All of the answers to this crossword can be found by searching the fact-filled book.

**P** \_\_\_\_\_  
**R** \_\_\_\_\_  
**I** \_\_\_\_\_  
**M** \_\_\_\_\_  
**A** \_\_\_\_\_  
**R** \_\_\_\_\_  
**Y** \_\_\_\_\_

1. One of the oldest working ports in the country is the Port of \_\_\_\_\_.
2. The Cog \_\_\_\_\_ was the first of its kind in the world.
3. A dessert made from milk \_\_\_\_\_
4. The largest member of the deer family \_\_\_\_\_
5. The first people in New Hampshire \_\_\_\_\_
6. Tugboats went up and down the Piscataqua \_\_\_\_\_
7. Brook trout are speckled with \_\_\_\_\_ spots.

# Hunt High and Low

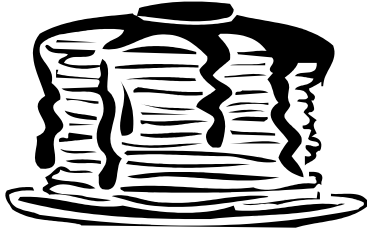


*Primary Numbers* is a fact-filled book about New Hampshire. Search high and low throughout the book for the answers to these questions.

1. What's unusual about Story Lands Carousel? \_\_\_\_\_  
\_\_\_\_\_
2. Name the building where sap is boiled \_\_\_\_\_
3. Name New Hampshire's endangered butterfly species \_\_\_\_\_
4. In what year was the first giant slalom race held in New Hampshire? \_\_\_\_\_
5. Who developed the Wampum drill? \_\_\_\_\_
6. How many apples are in each box on the 90 page? \_\_\_\_\_
7. Why is the book called *Primary Numbers*? \_\_\_\_\_  
\_\_\_\_\_
8. In which city are the New England sled dog races held? \_\_\_\_\_
9. In what year was *Primary Numbers* published? \_\_\_\_\_
10. What is another name for a fisherman? \_\_\_\_\_







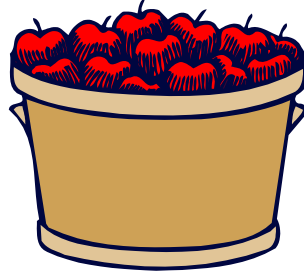
## Making Maple Syrup

Do you love to eat pancakes covered with maple syrup? Did you know the syrup is made from maple tree sap? Discover how the syrup is made in *Primary Numbers*.

Number these statements in the correct sequence needed for making maple syrup.

- \_\_\_ A. Put a tap into the hole
- \_\_\_ B. The sap drips into the bucket
- \_\_\_ C. Boil the sap
- \_\_\_ D. Drill a hole into the maple tree
- \_\_\_ E. Pour the sap into a big barrel
- \_\_\_ F. Clear liquid thickens into golden syrup
- \_\_\_ G. Eat syrup on pancakes
- \_\_\_ H. Hang the bucket on the tap hook

Draw a picture of yourself enjoying pancakes.



# We Love Apples!

## Survey and Graph

New Hampshire grows more than 90 varieties of apples. How many have you tried? Discover the names of some of the apples that originate in New Hampshire in *Primary Numbers*.

Everyone likes to eat their apples a different way. Survey 25 people to see which of the ways below they prefer.

Raw

Applesauce

Apple Pie

Use the data you collected to make a pictograph showing the results. A pictograph is a graph using pictures to show the numbers. If your graph was on dogs you might choose to use a dog as your symbol. If six people like boxers you would draw six dogs in that space. You might use an apple to show your numbers.

# JACK O'LANTERN TIME!

A pumpkin festival is a wonderful way to celebrate the harvest season. You will find a town in New Hampshire that has such a festival in *Primary Numbers*.

Decorate the pumpkins below. Give each jack o'lantern a different facial expression. Be creative!



# EXTRA! EXTRA! READ ALL ABOUT IT!



Trains can be fun to read about and to ride on. Read about the New Hampshire Cog Railway in *Primary Numbers*.

Use the graphic organizer below to write a newspaper article about the opening of this unique railway.

**WHO** \_\_\_\_\_  
**WHAT** \_\_\_\_\_  
**WHERE** \_\_\_\_\_  
**WHEN** \_\_\_\_\_  
**WHY** \_\_\_\_\_  
**HOW** \_\_\_\_\_

Give your article an interesting title.

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# Make a New Hampshire Quilt

New Hampshire has many people, places, and things that make it a wonderful place to visit. Discover this state in the book *Primary Numbers*. Quilting is a popular pastime in New Hampshire. Turn to the 100 page of *Primary Numbers* to learn about the ABC quilt project.

Design a quilt that shows some of the reasons people should visit New Hampshire.

A large, empty rectangular box with a thin black border, intended for a student to draw a quilt design. The box is currently blank.



## Primary Numbers Answer Sheet

**Presidential Mountains-** Eisenhower, Madison, Monroe & Pierce, John Quincy Adams, Jefferson, Adams, Washington

**Might Moose-** possible answers- largest animal in deer family, grow to 7 ft. tall, weigh as much as 1,500 pounds, herbivore, heart hoofprint, moose means animal that strips the bark off trees.

**Ready for Fishing-** gloves, auger, warm pants, hot chocolate, tip-up, hat, sled

**They Came from New Hampshire-** 1) dogsled 2) fiddles 3) Yankees  
4) League of Arts and Crafts 5) author 6) started Shakers 7) illustrator

**Motorcycle Math-** 1) 370 miles 2) 415 miles, 830 miles 3) 1,250 4) 280

**Primary Crossword-** 1) Portsmouth 2) Railway 3) ice cream 4) moose  
5) Abenaki 6) River 7) yellow

**Hunt High and Low-** 1) goes around clockwise and has horses that rock back and forth 2) sugar shack 3) Karner Blue 4) 1937 5) Dutch 6) 9  
7) Has the nation's first presidential primary 8) Tamworth, New Hampshire  
9) 2004 10) angler

**Making Maple Syrup-** 2, 4, 6, 1, 5, 7, 8, 3