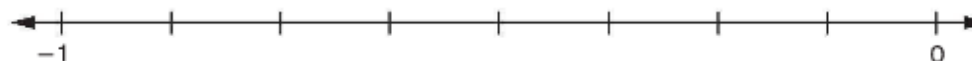


Math Message

- 1 How are the two sides of your eighths fraction strip alike or different?

- 2 This number line shows the interval between -1 and 0 . Fill in the missing numbers.



- 3 How do you know whether $-\frac{7}{8}$ is closer to -1 or closer to 0 ?



- 4 The vertical number line at right shows the interval -1 to 0 . Find and label $-\frac{1}{3}$ on the number line. Explain how you found it.

$$\frac{2}{6}$$



- 5 Plot these pairs of points on your folding number line:

2 and -2 , 1 and -1 , $\frac{1}{2}$ and $-\frac{1}{2}$, $1\frac{1}{2}$ and $-1\frac{1}{2}$, $\frac{1}{4}$ and $-\frac{1}{4}$, $2\frac{1}{4}$ and $-2\frac{1}{4}$, $\frac{2}{3}$ and $-\frac{2}{3}$

Then fold your number line in half exactly in the middle of 0 . What do you notice?

- 6 How is the negative side of the number line similar to or different from the positive side?

Use your folding number line to answer the following questions.

1 What number is the same distance from 0 as $1\frac{1}{2}$? _____

2 What number is the same distance from 0 as -4 ? _____

The numbers -7 and 7 are **opposites**. The numbers $\frac{1}{2}$ and $-\frac{1}{2}$ are also opposites.

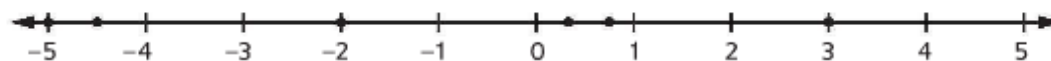
3 Write a definition of *opposite of a number*.

4 Describe how to find the opposite of a number.

5 Why is 0 a special case?

6 Give the opposite of each number. Plot the opposites on the number line.

3 _____ -5 _____ $\frac{3}{4}$ _____
 $-4\frac{1}{2}$ _____ $\frac{1}{3}$ _____ -2 _____



7 Circle the word that matches each of the following situations:

- | | | | |
|--------------------------------------|----------|----------|---------|
| a. The opposite of a positive number | Positive | Negative | Neither |
| b. The opposite of a negative number | Positive | Negative | Neither |
| c. The opposite of 0 | Positive | Negative | Neither |

1 For each elevation below, plot and label the point with its letter.

A: Mt. Everest (highest point on Earth)

8,848 meters above sea level 8,848

B: Mariana Trench (lowest point on Earth)

10,911 meters below sea level _____

C: Mana Pass on India-Tibet border
(highest point on Earth reached by road)

5,610 meters above sea level _____

D: The town of Whitehorse in the Yukon territory.
(highest point on Earth reached by sea)

640 meters above sea level _____

E: Bentley Subglacial Trench, Antarctica,
(lowest point on Earth not covered by liquid water)

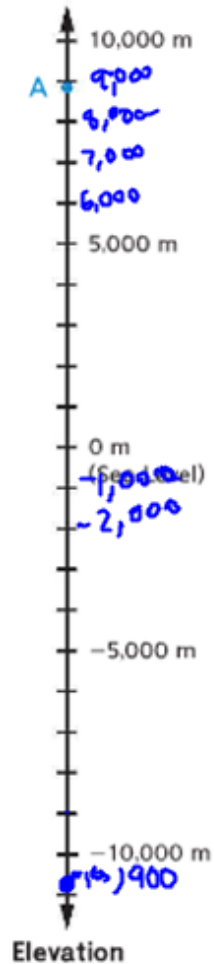
2,555 meters below sea level _____

F: Road beside the Dead Sea in Israel and Jordan
(lowest point on Earth reached by road)

418 meters below sea level _____

G: Puncak Jaya (highest mountain in Indonesia)

4,884 meters above sea level _____

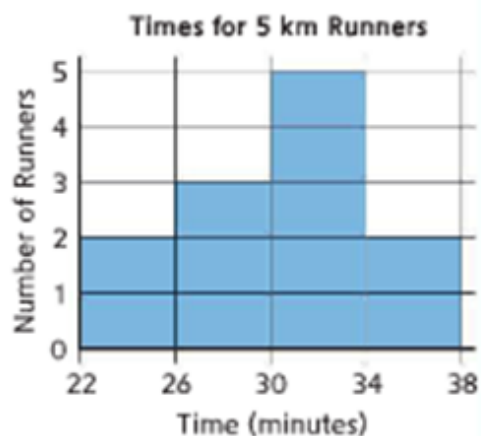


2 a. Write a situation having both positive and negative numbers.

b. Choose one negative point and one positive point. Describe what they mean.

c. What does 0 mean?

- 1 Write a statistical question that could be answered with this histogram.



- 2 Mark ran a mile in $7\frac{1}{2}$ minutes. His brother ran a mile in $6\frac{1}{6}$ minutes. How much more time does Mark take to run the mile?

Solution: _____



- 3 Write *true* or *false* for each number sentence.

a. $8 * 160 = (8 * 16) + (8 * 10)$

b. $8 * 160 = 160 * 8$ _____

c. $8 * 160 = 80 * 16$ _____

d. $8 * 160 = 168$ _____



- 4 **Writing/Reasoning** Explain how you solved Problem 2.

Plotting Points in 4 Quadrants

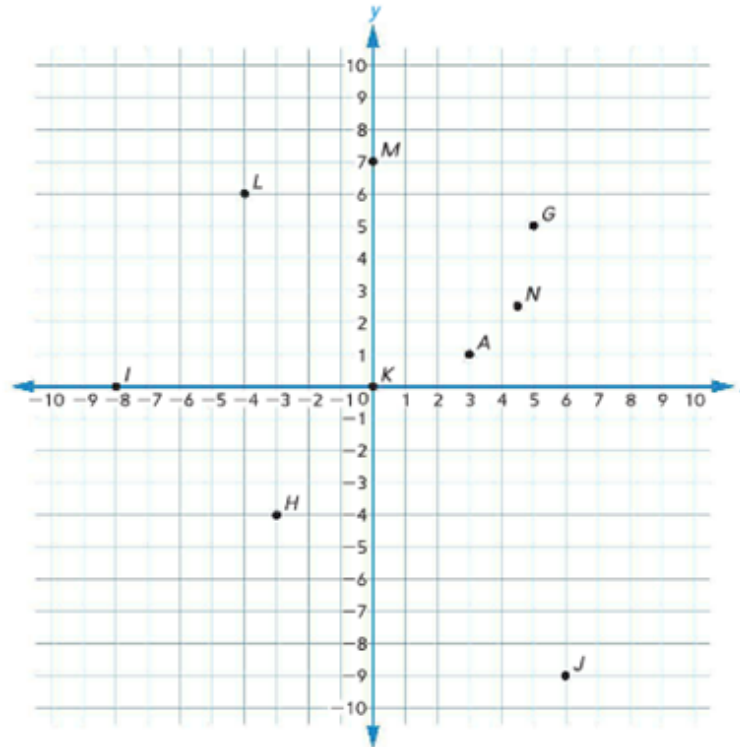
Lesson 1-14

DATE

TIME

Math Message

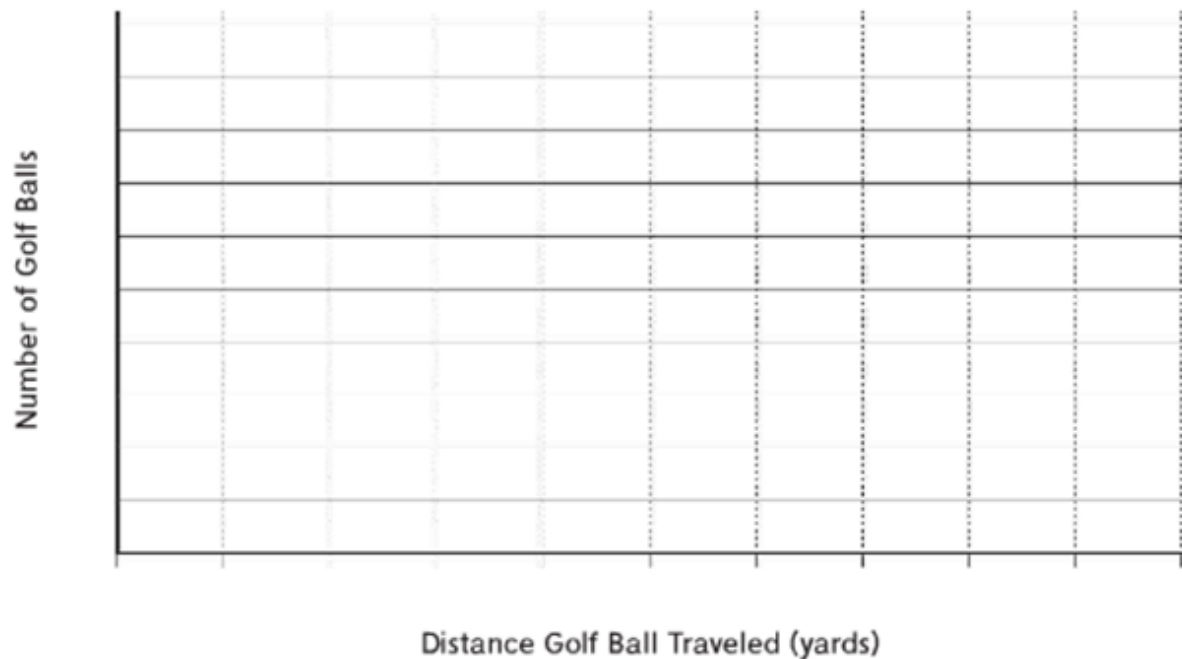
A vertical and horizontal number line intersect at 0 to create the coordinate grid below. Each number line has a positive side and a negative side. Remember that the first number in each ordered pair tells you how to move along the horizontal number line, and the second number tells you how to move along the vertical number line.



- Plot and label the following points on the coordinate grid. The first one has been done for you.
A: (3, 1) B: (2, 5) C: (-4, -2) D: (-6, -9) E: (0, 3) F: (-2, 0)
- The following points are shown on the coordinate grid. Write the ordered pair for each.
G: (_____, _____) H: (_____, _____) I: (_____, _____)
J: (_____, _____) K: (_____, _____) L: (_____, _____)
M: (_____, _____) N: (_____, _____)

Distance Golf Ball Travels (nearest yard)				
100	100	100	100	130
140	150	150	150	160
160	165	175	175	190
200	210	220	250	260

- 1 Create a histogram using the golf ball distance data. Decide what size bins make sense.



- 2 Title your histogram.
- 3 Estimate the mean distance the golf ball traveled. _____
- 4 Describe the shape of the histogram.

- 5 Why do you think a graph of golf ball hits might have this shape?

1 $624 \div 3 = ?$
 Choose the best answer.

208

28

280

2,008

SRB
143-144
147-148

2 Which of the following numbers are divisible by 5? Check all that apply.

35

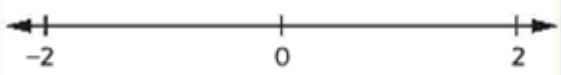
1050

1555

801

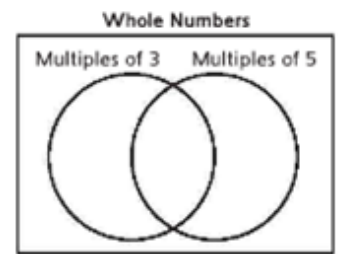
SRB
103

3 Plot and label the opposite of each number on the number line: 0, 1, -1, and $\frac{3}{4}$.

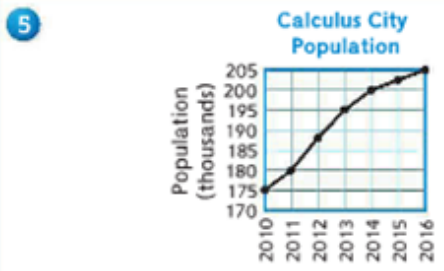


SRB
10-11
14

4 Place the following numbers in the correct section of the Venn diagram: 18, 30, 20, 15, 10, and 6.



SRB
106



Rishi used the graph to claim that the population of Calculus City doubled from 2010 to 2016. For him to be right, what would the population have to be in 2016?

Solution: _____

SRB
300

6 The back wall in Maurice's bedroom measures $14\frac{3}{5}$ feet long. His new dresser measures $3\frac{4}{5}$ feet long. What length of the wall will be left after he places the dresser against the wall?

Solution: _____

SRB
32