

## The Number System- Positive and Negative Numbers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. How can you describe positive and negative numbers? Consider where they are located on a number line.

2. What are three real-world situations in which we use positive and/or negative numbers?

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3. Sort each word under the appropriate column, "Positive Number" or "Negative Number," to indicate its location from zero.

Gain      Loss      Deposit      Credit      Debit  
Charge      Below Zero      Withdraw      Owe      Receive

Positive Number	Negative Number

**What other words can you add to each column?**

4. Write an integer to represent each of the following situations:

a. Sara lost \$34 at the mall

\_\_\_\_\_

b. You earned \$25 for dog sitting

\_\_\_\_\_

c. Jacob owes his dad \$5

\_\_\_\_\_

d. The temperature at the sun's surface is about  $5,500^{\circ}\text{C}$

\_\_\_\_\_

e. The temperature outside is 4 degrees below zero

\_\_\_\_\_

f. A football player lost 10 yards when he was tackled

\_\_\_\_\_

g. A debit of \$40

\_\_\_\_\_

h. A temperature increase of  $40^{\circ}\text{F}$

\_\_\_\_\_

i. A withdrawal of \$225

\_\_\_\_\_

j. 14,000 feet below sea level

\_\_\_\_\_

5. Describe your own situation that could be modeled by the integer  $-15$ . Explain what zero represents in the situation.

\_\_\_\_\_

\_\_\_\_\_

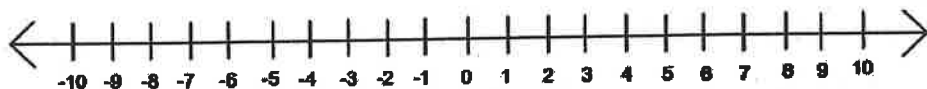
\_\_\_\_\_

What's Your Sign? Representing numbers on a number line.

Directions: Use the thermometer to answer the questions. Use a blue color pencil to represent colder temperatures, and use a red color pencil to represent warmer temperatures.

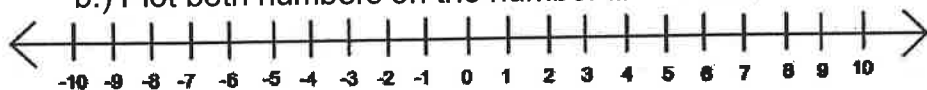
1. a.) What temperature is colder,  $-10^{\circ}$  or  $0^{\circ}$ ? \_\_\_\_\_

b.) Plot both numbers on the number line below.



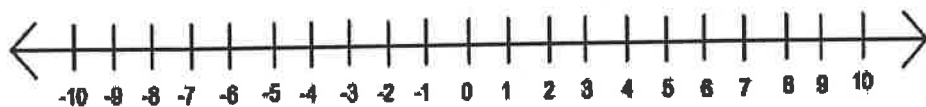
2. a.) What temperature is colder,  $-5^{\circ}$  or  $0^{\circ}$ ? \_\_\_\_\_

b.) Plot both numbers on the number line below.



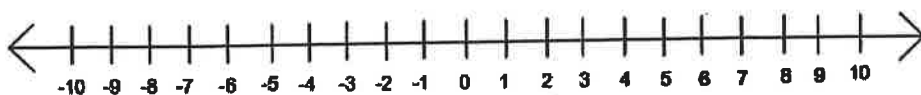
3. a.) What temperature is colder,  $-6^{\circ}$  or  $-9^{\circ}$ ? \_\_\_\_\_

b.) Plot both numbers on the number line below.



4. a.) What temperature is colder,  $-2^{\circ}$  or  $-5^{\circ}$ ? \_\_\_\_\_

b.) Plot both numbers on the number line below.

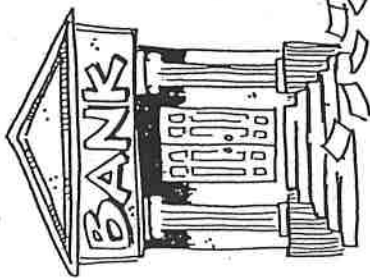


5. What do you notice about negative numbers?

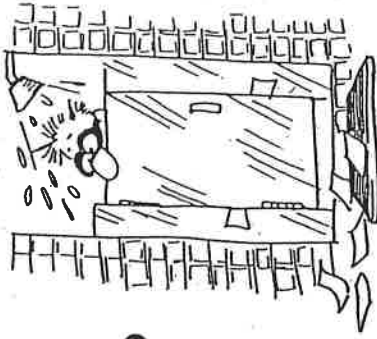
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# Why Did the Bank Robber Run Home and Jump in the Shower?



Write an integer for each situation. Find the point on the number line that corresponds to the integer. Write the letter of the exercise above the number line at that point.



- (H) 3 units to the left of 0
- (A) the opposite of 13
- (D) 2 units to the right of 0
- (E) the opposite of -11
- (H)  $8^{\circ}$  below zero
- (S) a gain of 6 lb
- (T) a deposit of \$15
- (R) 6 ft below sea level
- (I) a gain of 9 yd
- (A) 1 point higher

- (H) a loss of \$14
- (S) 11 fewer members
- (I) an increase of 5 miles per hour
- (E) 2 km below the surface
- (T) 15 s before blastoff
- (W) a withdrawal of \$9
- (H) up 4 flights
- (U) put in 14 gal
- (E) 5 years ago
- (T) a debt of \$12
- (D) score 10 points
- (H) 8 steps forward
- (E) the opposite of 7
- (O) the opposite of -13
- (H) not positive or negative