

# Practice 11-1

Use an integer to represent each situation.

1. spent \$23 \_\_\_\_\_      2. lost 12 yards \_\_\_\_\_      3. deposit of \$58 \_\_\_\_\_

Write the opposite of each integer.

4. 16 \_\_\_\_\_      5. -12 \_\_\_\_\_      6. 100 \_\_\_\_\_      7. 75 \_\_\_\_\_

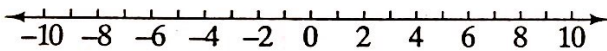
Find each absolute value.

8.  $|-5|$  \_\_\_\_\_      9.  $|13|$  \_\_\_\_\_      10.  $|25|$  \_\_\_\_\_      11.  $|-7|$  \_\_\_\_\_

12. The temperature in Fargo, North Dakota, was  $6^{\circ}\text{F}$  at noon. By 4 P.M. the temperature dropped to  $-10^{\circ}\text{F}$ . What integer represents the change in temperature?  
\_\_\_\_\_

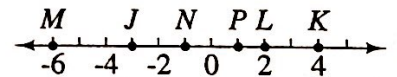
13. A snail climbs 3 inches up a wall. Then it slides 6 inches down the wall. What integer represents the distance the snail traveled from its original position?  
\_\_\_\_\_

14. Graph these integers on the number line: -4, 9, 1, -2, 3.



Write an integer for each point on the number line.

15. J \_\_\_\_\_      16. K \_\_\_\_\_  
17. L \_\_\_\_\_      18. M \_\_\_\_\_



Write two numbers that have the given absolute value.

19. 4 \_\_\_\_\_      20. 38 \_\_\_\_\_  
21. 260 \_\_\_\_\_      22. 4,092 \_\_\_\_\_

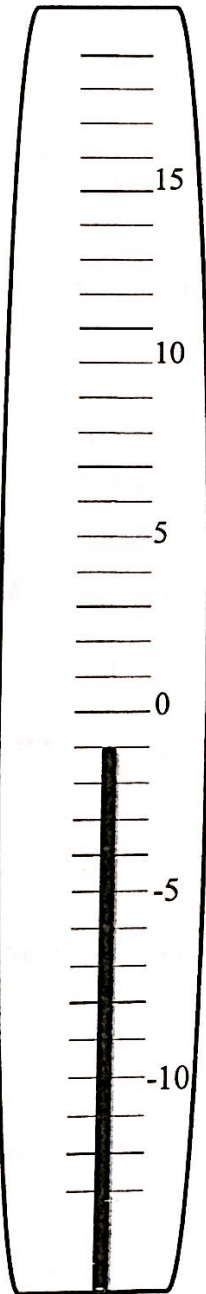
Think of the days of a week as integers. Let today be 0, and let days in the past be negative and days in the future be positive.

23. If today is Tuesday, what integer stands for last Sunday? \_\_\_\_\_  
24. If today is Wednesday, what integer stands for next Saturday? \_\_\_\_\_  
25. If today is Friday, what integer stands for last Saturday? \_\_\_\_\_  
26. If today is Monday, what integer stands for next Monday? \_\_\_\_\_

**LEARNING TASK: WHAT'S YOUR SIGN?**

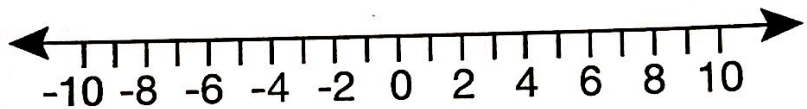
**Part I: Representing numbers on a number line.**

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



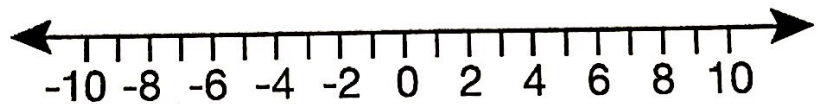
1A. Which temperature is colder,  $-10^\circ$  or  $0^\circ$ ?

1B. Plot both numbers on the number line below.



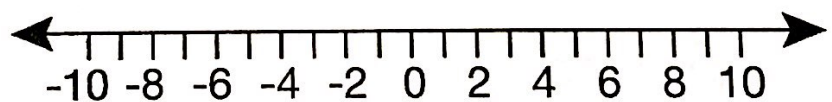
2A. Which temperature is colder,  $-5^\circ$  or  $0^\circ$ ?

2B. Plot both numbers on the number line.



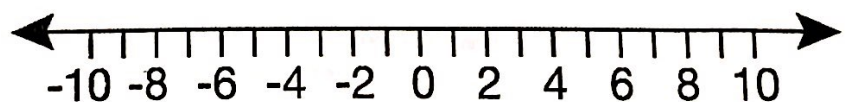
3A. Which temperature is warmer,  $-6^\circ$  or  $-9^\circ$ ?

3B. Plot both numbers on the number line.



4A. Which temperature is warmer,  $-2^\circ$  or  $-5^\circ$ ?

4B. Plot both numbers on the number line.

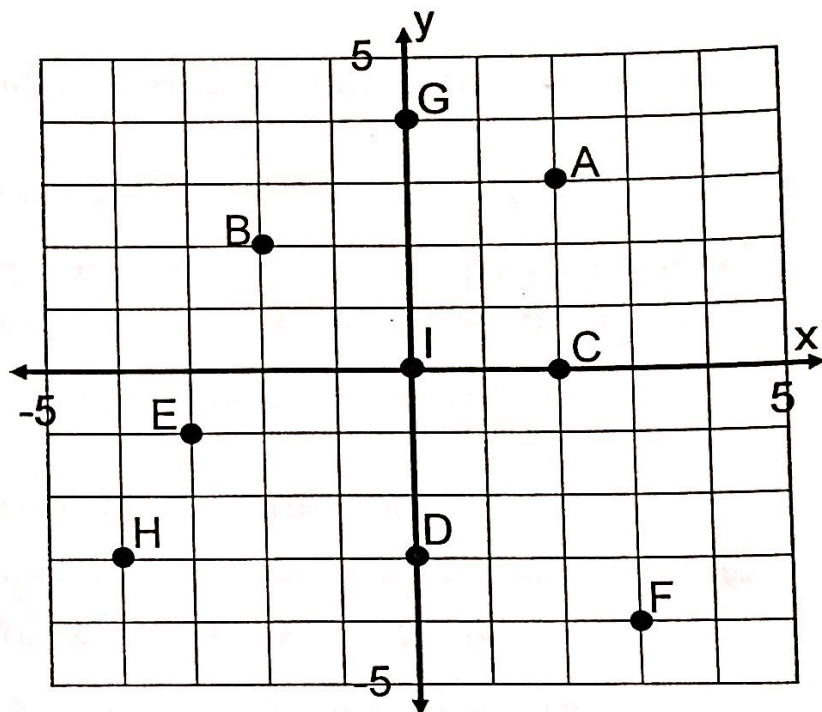


5. What do you notice about negative numbers?

The **graph** of  $(x,y)$  is the \_\_\_\_\_ in the plane that \_\_\_\_\_  
to the ordered pair  $(x, y)$ .

Write the order pairs that correspond to the points labeled.

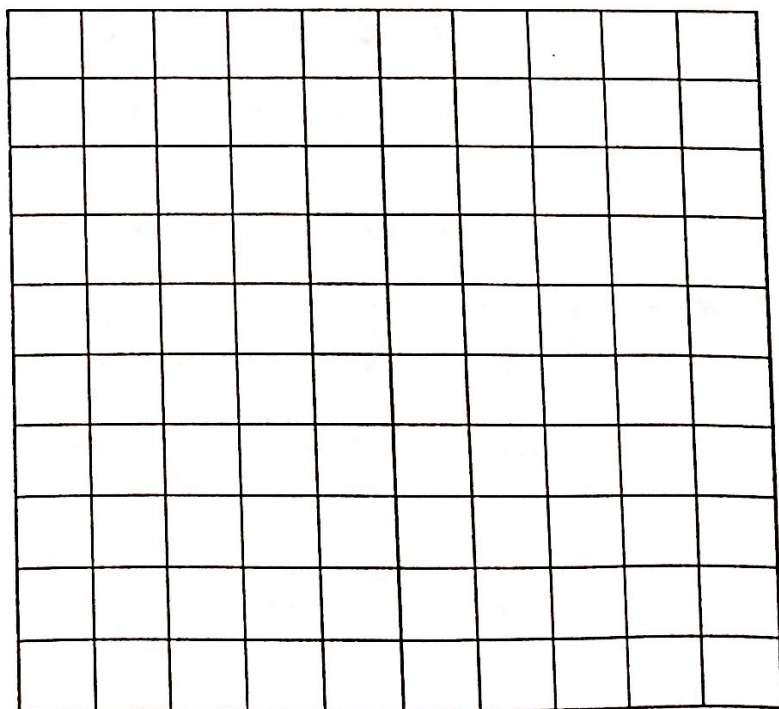
ex



Plot and label the ordered pairs in the coordinate grid.

ex

- A(4, 1)
- B(0, 1)
- C(-2, 5)
- D(-3, 0)
- E(3, -2)
- F(1, -2)
- G(-4, -3)
- H(0, 0)



**Coordinate plane** - a coordinate system formed by the intersection of a horizontal number line, called the x - axis, and a vertical number line called the y-axis.

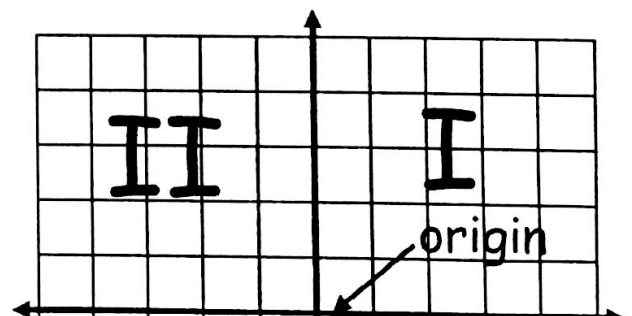
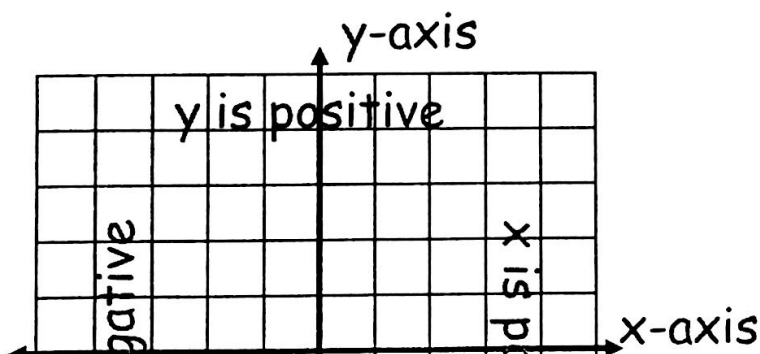
**Points** are labeled with capital letters.

**Ordered Pair** - a pair of numbers that can be used to represent a point in the coordinate plane, often expressed as ( x , y ).

The *first* coordinate, x, of an ordered pair is the x - coordinate.  
It tells how far left or right to move from the origin.

The *second* coordinate, y, of an ordered pair is the y - coordinate.  
It tells how far up or down to move from the origin.

**Quadrants** - the four regions that the coordinate plane is divided into.



# Integers

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

Period: \_\_\_\_\_

- If you were to get ten dollars from a friend, you would say you received \$10
  - What if you had to pay your friend ten dollars, how would you say that?
  - Today we are going to learn about negative numbers.
  - Start by drawing a number line on your paper:
- 
- Now fold it around the zero point, marking the left side of zero to match the current numbers:
- 
- Label these numbers with negative signs (-)
  - Each \_\_\_\_\_ number is paired with a \_\_\_\_\_ number
    - The paired numbers are the same distance from \_\_\_\_\_ but in opposite directions
  - Whole numbers and their opposites are called integers (opposites are the same distance from 0 with different signs)
  - Positive numbers can be written with or without the \_\_\_\_\_ sign (+)
  - Integers can be used to describe things such as: increase and \_\_\_\_\_, forward and \_\_\_\_\_, above and \_\_\_\_\_.

