Name: _____   Date _____

6.NS.5

1.) Which of the following are most likely to be represented by -8? **Circle all that apply.** (1 point)

    a. Temperature drop of -8° F
    b. A depth of 8 meters
    c. A growth of 8 centimeters
    d. A time 8 years ago

6.NS.6

2.) Create a number line and graph –5, 0, 2, and 4. Then, graph their opposites on the same number line. (1 point)

The following should be graphed on the line: -5 , -4, -2, 0, 2, 4, 5

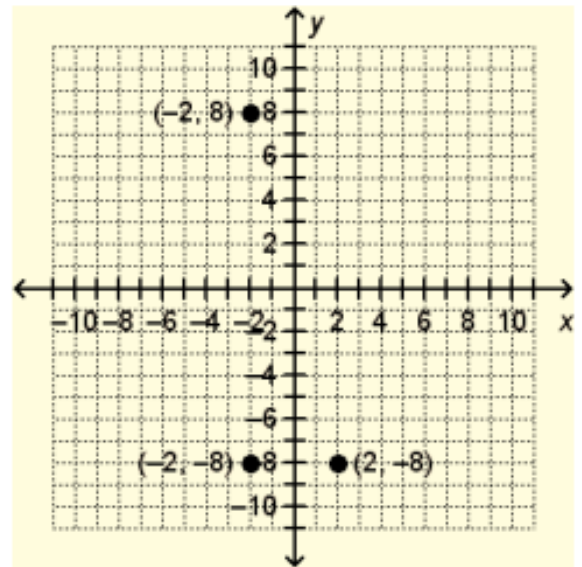<--->

6.NS.6

3a.) Graph and label the point (−2, 8).

(1 point graphed and labeled correctly)

3b.) Find the point that represents a reflection of (−2, 8) across the x-axis. Graph and label the result. (1 point for coordinates (-2,-8), 1 point for graphed)

3c.) Find the point that represents a reflection of the result from part b across the y-axis. Graph and label the result. (1 point for coordinates (2,-8) and 1 point for graphed and labeled correctly)

6.NS.7a

4.) A number x is to the left of 10.2 on a number line. Which inequality describes this situation? (1 point)

    A. $x > 10.2$

    B. $x < 10.2$

    C. $-10.2 < x$

    D. $x < -10.2$

6.NS.7b

5.) Marlene is about to write a check for $103.48 to pay for groceries. When she subtracts the amount of the check from her account balance, she sees that the new balance would be –$28.80. Rather than overdraw her checking account, Marlene asks the cashier to remove some items. For Marlene to be able to pay by check without overdrawing her account, what is the minimum value of the items the cashier must remove? (1 point)

    A.   –$103.48
   B.   –$28.80
    C. $28.80
    D. $103.48

6.NS.7c

6.) How do the numbers –3 and 2 compare? How do their absolute values compare? (1 point)

    A.   –3 is greater than 2, but 2 has the greater absolute value.
    B.   2 is greater than –3, but –3 has the greater absolute value.
    C.   –3 is greater than 2, and –3 has the greater absolute value.
    D.   2 is greater than –3, and 2 has the greater absolute value.

6.NS.8

7.) Jamie's house is in the center of town, at point (0, 0). He is doing some errands in town and stops at the other four labeled points on the coordinate plane. One unit on the coordinate plane represents 1 block. He travels 4 blocks to his first stop. His second stop is 7 blocks from his first stop. He can only travel on the sidewalks, which are represented by the grid lines.
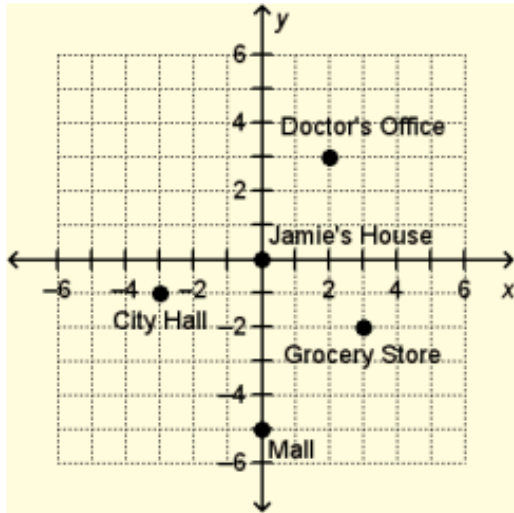
a. Where did Jamie go first? List all possible answers. Justify your answers. (1 point for answer, 1 point for explanation)

Jamie went to city hall first. The distance between Jamie's house and city hall is 4 blocks. The distance between Jamie's house and the grocery store is 5 blocks. The distance between Jamie's house and the mall is 5 blocks. The distance between Jamie's house and the doctor's office is 5 blocks. City hall is the only location that is 4 blocks away.

b. Where did Jamie go second? List all possible answers. Justify your answers. (1 point for answer, 1 point for explanation)

Jamie went to either the mall or the grocery store second. The distance between city hall and the mall is 7 blocks. The distance between city hall and the grocery store is 7 blocks. The distance between city hall and the doctor's office is 9 blocks. The mall and the grocery store are both 7 blocks away. The mall and the grocery store are the only possible second stops.

6.G.3

8. Graph the shape that has vertices A(−3, −2), B(−1, 2), C(4, 2), and D(2, −2).

(1 point for the graph, 1 point for identifying the shape)
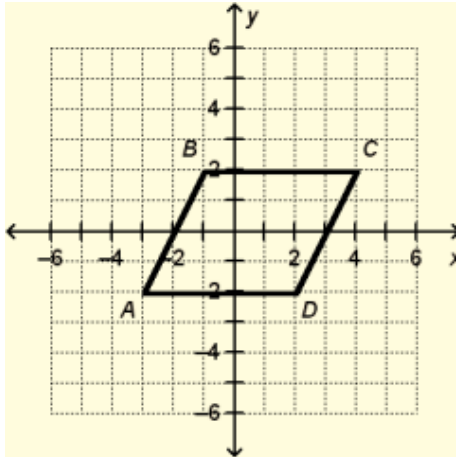
What kind of shape is it? parallelogram