Name _____ Date _____

Integers and the Coordinate Plane Packet

Write a positive or negative integer that represents the situation.
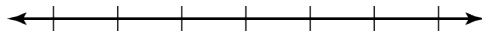
1. You gain 60 points in a board game.

2. The temperature is 9 degrees below zero.

3. The stock market drops 18 points.

4. You earn $125 at your job.

Graph the integer and its opposite.

5. -9

6. 5

7. 14
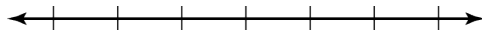

8. -20

9. -56

10. 850

11. You hike 72 feet up a mountain. The next day, you hike 12 feet down the mountain. Write an integer to represent each situation.

Complete the statement using < or >.

1. 0 _____ 9

2. 8 _____ -3

3. -5 _____ -7

4. -12 _____ 0

5. -6 _____ -2

6. -21 _____ -40

Order the integers from least to greatest.

7. $1, -3, -6, 5, 0$

8. $2, -4, -9, 3, -1$

9. $11, -11, 18, -18, -8$

10. $21, -14, -35, 28, -7$

11. Your miniature golf scores for the first half of a course are $-3, 7, -2, -5, 3,$ $-1, 0, 4, -4$. Order the scores from least to greatest.

Find the absolute value.

1. $|-5|$

2. $|7|$

3. $|0|$

4. $|-31|$

Complete the statement using <, >, or =.

5. 7 _____ $|-4|$

6. -9 _____ $|-10|$

7. $|8|$ _____ $|-8|$

Order the values from least to greatest.

8. $0, -5, |-6|, |-2|, 4$

9. $|-12|, -21, |25|, |-31|, -14, 33$

10. You go to a store in a mall that is on the fourth floor above the main level. Your friend goes to a store that is two floors below the main level.

  a. Write an integer for the position of each person relative to the main level.

  b. Find the absolute value of each integer.

  c. Who is farther from the main level? Explain.

Plot the ordered pair in the coordinate plane. Describe the location of the point.
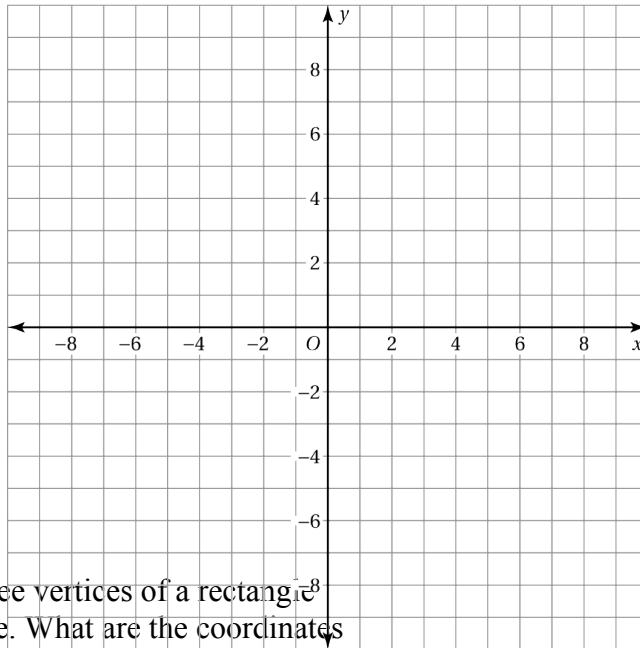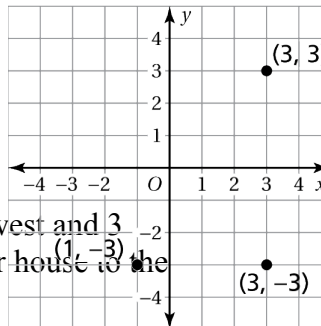
1. $A(8, 4)$

2. $B(-3, 5)$

3. $C(-2, -2)$

4. $D(4, -7)$

5. $E(-6, -5)$

6. $F(-9, 7)$

7. The coordinates of three vertices of a rectangle are shown in the figure. What are the coordinates of the fourth vertex?

8. Your house is located at $(-4, 3)$, which is 4 blocks west and 3 blocks north of the center of town. To get from your house to the mall, you walk 7 blocks east and 4 blocks south.

   a. What ordered pair corresponds to the location of the mall?

   b. Is your house or the mall closer to the center of town? Explain.