Homework #23 - Test 4 Review

1) Seeley, California is located at an elevation that is below sea level. What is a possible elevation of Seeley, California?

A. 600 feet   B. 500 feet   C. -200 feet   D. 0 feet

2) Chicago, Illinois has an elevation of 600 feet above sea level. The elevation of Seeley, California is -200 feet. Circle all the true statements.

A. Seeley is above sea level.   E. The difference in the elevations is 600

B. Seeley is at sea level.   feet.

C. Seeley is below sea level.   F. The difference in the elevations is

D. The difference in elevations is less   more than 600 feet.

than 600 feet.

3) Chicago, Illinois has an elevation of 600 feet above sea level. The elevation of Seeley, California is -200 feet. What does 0 represent in the context of this situation?

_____

4) Cityville has a temperature of -10°F. Townville has a temperature colder than Cityville. Circle all values that could represent the temperature of Townville.

     12°F   8°F   -8°F   -12°F   -20°F

5) Plot the following locations on the number line below: $-\frac{2}{4}$, 1.6, -2.25, $3\frac{3}{4}$, -4.9, 5.1
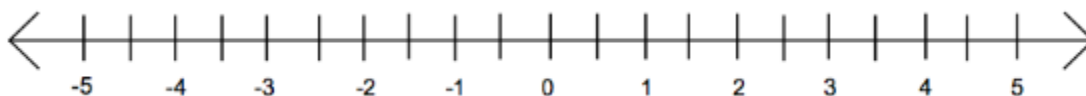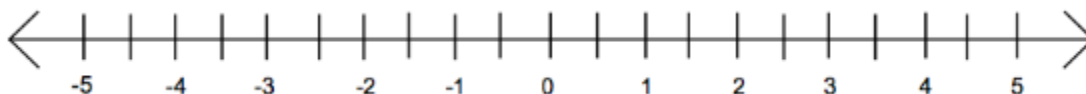

List the values from least to greatest. _____ < _____ < _____ < _____ < _____ < _____

6) List the opposite of the following numbers:

a) -4.5 _____   c) -102 _____   e) 13/4 _____

b) 3 ½ _____   d) -0.4 _____   f) 17 _____

7) Plot a point on the number line below that represents the opposite of 2.5.

8) Plot and label a point that represents –x (the opposite of the point plotted below).
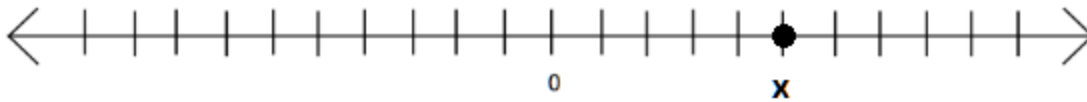
9) Name the absolute value of each number.

a) |-3| = _____   d) |2.25| = _____

b) |5.5| = _____   e) |-7.4| = _____

c) $\left|-\frac{13}{4}\right| =$ _____   f) |4| = _____

10) List the following values from greatest to least. |-2.25| 3 |2.5| -3   0

_____ > _____ > _____ > _____ > _____

11) According to the table to the right:

a) Which city has the lowest elevation?

_____

b) Which city has the highest elevation?

_____

c) Which city is furthest from sea level?

_____

d) Which city is closest to sea level?

_____

City	Elevation (feet)
New Orleans, LA	-7
Birmingham, AL	644
Death Valley, USA	-282
Miami, FL	11
Anchorage, AK	144

12) On the coordinate plane provided on the right:

a) Label the x-axis and y-axis.

b) Label all four quadrants.

c) Plot the following points:

- (-2, -3)
- (-2.5, 0.5)
- (1, 6)
- (4 ½, 3 ½)
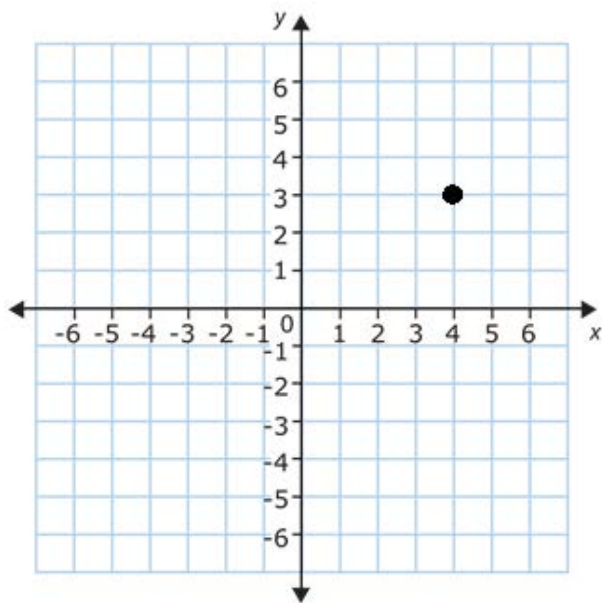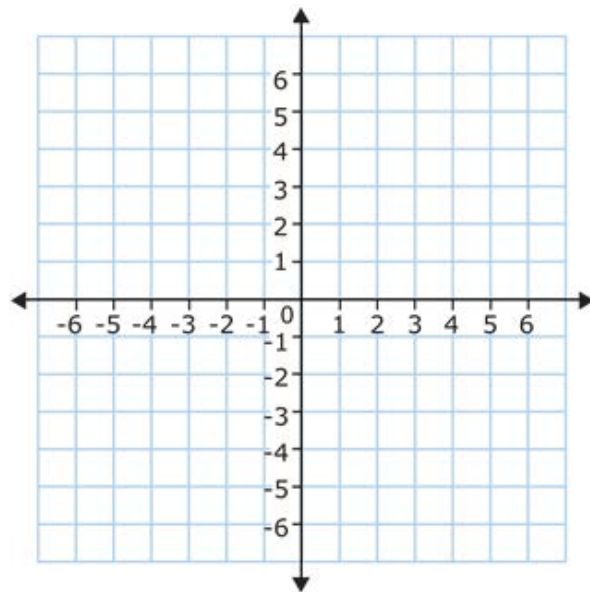
13) The point (4, 3) is plotted on the coordinate plane to the left.

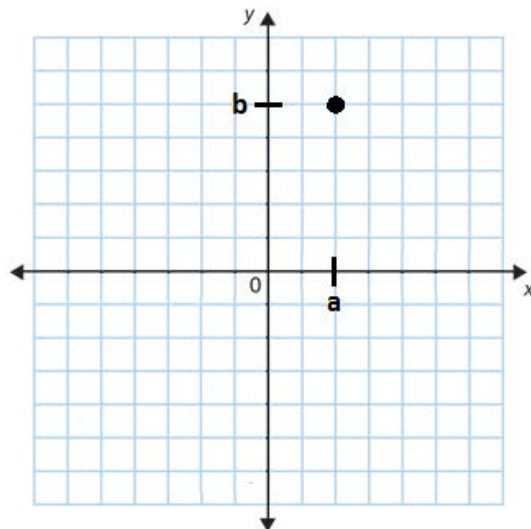a) What ordered pair would be the reflection of (4, 3) across the x-axis?

(_____ , _____)

b) What ordered pair would be the reflection of (4, 3) across the y-axis?

(_____ , _____)

14) On the coordinate plane to the right, the ordered pair (a, b) is plotted. Plot and label the following ordered pairs on the coordinate plane:

a. (-a, b)

b. (a, -b)

c. (-a, -b)

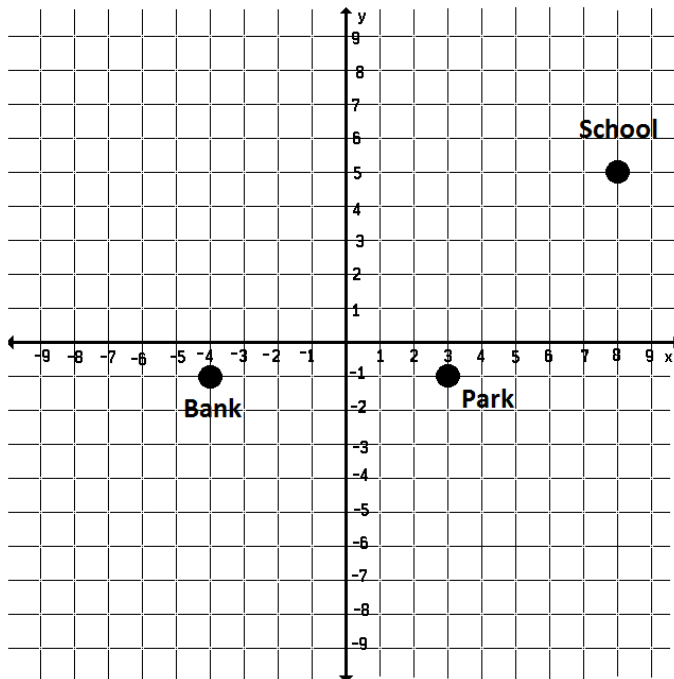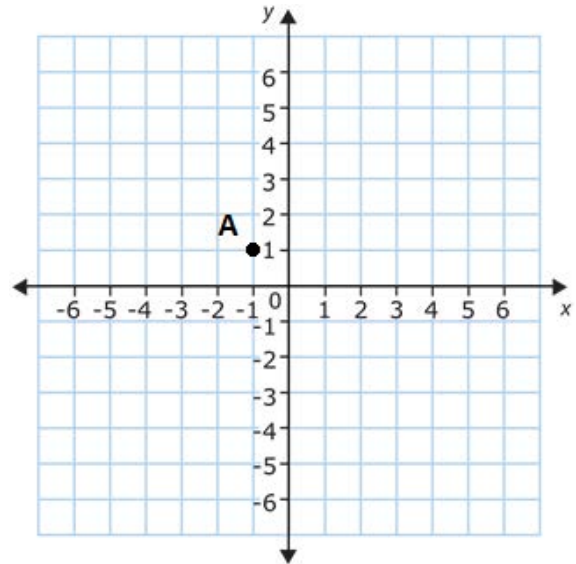15) What is the distance between the points (4, 6) and (4, 9)? _____ units.

16) What is the distance between the points (2, -3) and (-5, -3)? _____ units.

17) Point A is shown on the coordinate grid. Plot
and label the coordinates of four points that
are all 4 units away from point A.

- 4 units up   (_____ , _____)

- 4 units left   (_____ , _____)

- 4 units down   (_____ , _____)

- 4 units right   (_____ , _____)

18) The town wants to build a new library that is 5 blocks away from the park and 6 blocks away from the school.

Plot and label the location where the library should be built.

School (8, 5)

Bank (-4, -1)

Park (3, -1)

Library (_____ , _____)

Find the distance between:

19) (9, -4) and (9, 7)

20) (3, 0) and (-5, 0)

21) (6, 2) and (6, 10)

22) (-4, -2) and (-4, -11)