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Grade 6: Module 7 – Coordinate Plane

Part 1

1. Point A is located on the coordinate plane at (5, 4). Which of the following statements correctly describes the relationship between Point A and the point (5, $^{-}$4)?

A. It is a reflection across the *y*-axis.

B. It is a reflection across the *x*-axis.

C. They are 10 units apart.

D. They are 4 units apart.

2. What Quadrant is the point (3, $^{-}$6) located in?

A. Quadrant I

B. Quadrant II

C. Quadrant III

D. Quadrant IV

3. What Quadrant is the point ($^{-}$6,$^{-}$4) located in?

A. Quadrant I

B. Quadrant II

C. Quadrant III

D. Quadrant IV

4. The point ($^{-}$3,$^{-}$2) is reflected across the *y*-axis. What are the coordinates of the reflected point?

A. (3, $^{-}$2)

B. (3, 2)

C. ($^{-}$3, $^{-}$2)

D. ($^{-}$3, 2)

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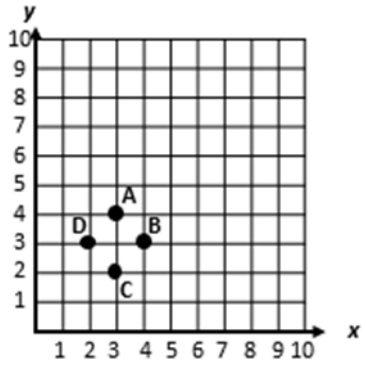
5. Look at the graph below. What are the coordinates of Point A?



A. (3, 4)

B. (3, 2)

C. (2, 3)

D. (4, 3)

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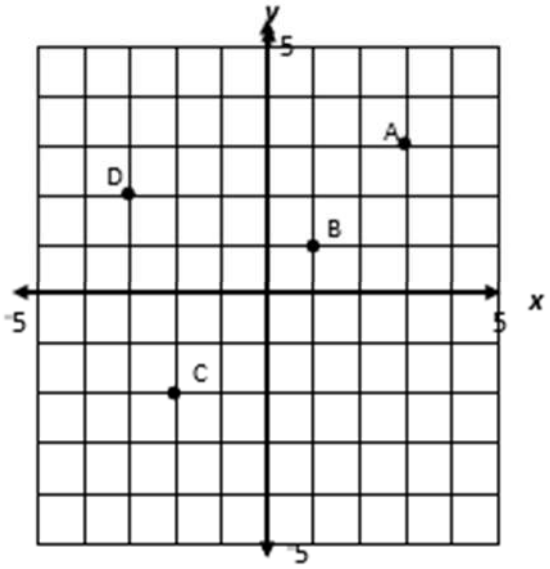
Use the following coordinate grid to answer Questions 6 and 7.



6. What are the coordinates for A_1 if Point A is reflected across the *y*-axis?

A. $(3, -3)$

B. $(0, 3)$

C. $(3, 3)$

D. $(-3, 3)$

7. What are the coordinates for C_1 if Point C is reflected across the *x*-axis?

A. $(2, 2)$

B. $(-2, 2)$

C. $(2, -2)$

D. $(0, 2)$

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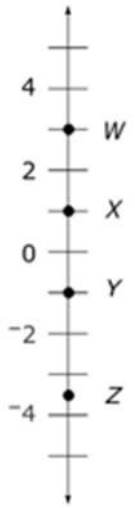
8. Which of the following points is located at the **opposite** of negative 1?

A. Punto W

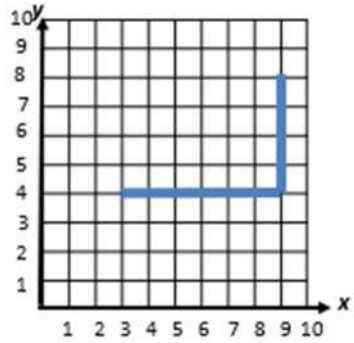
B. Punto *Y*

C. Punto *X*

D. Punto Z



9. Which of the points below will be the fourth point to create a rectangle?



A. (3, 4)

B. (3, 8)

C. (9, 4)

D. (9, 8)

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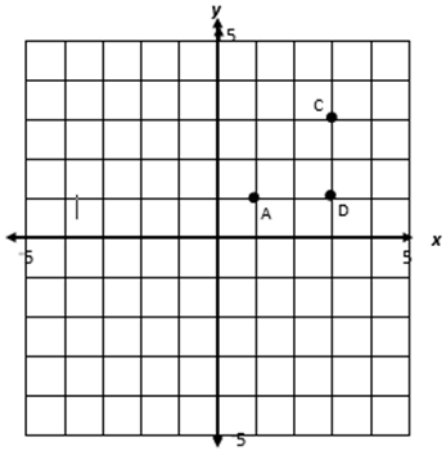
10. There are three points plotted on the coordinated on the grid below.



What point will complete the figure to make a square?

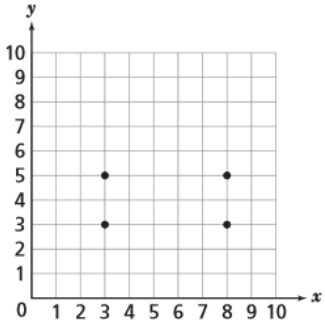
A. (3, 1)

B. (1, 1)

C. (3, 3)

D. (1, 3)

11. What is the horizontal distance from the point at (3, 5) to the point at (8, 5)?



A. 3 units

B. 5 units

C. 8 units

D. 11 units

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12. The coordinates of Point A are (5, -3). The coordinates of Point B are (5, 7). Which expression represents the vertical distance, in units, between points A and B ?

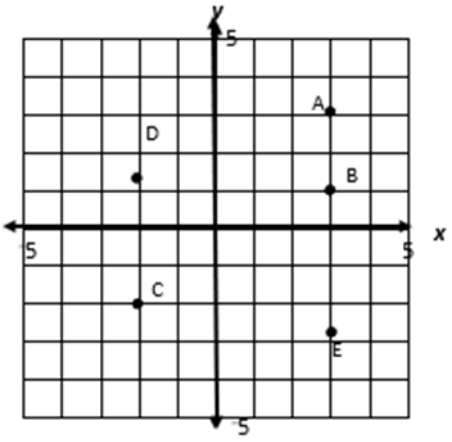
A. $|-3| + 7$

B. $|-3| - |7|$

C. $|7| - |3|$

D. $|-7| - |-3|$

13. There are 5 points plotted in the coordinate grid below.



Which point is located at a distance of 5 horizontal units from Point E?

A. Point A

B. Point B

C. Point C

D. Point D

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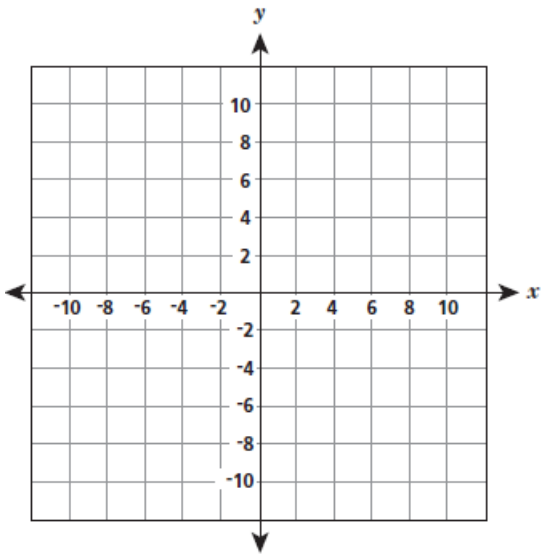
Part 2

14. The endpoints of a line segment can be represented on a coordinate grid by the points $A(4, 6)$ and $C(4, -8)$. Graph and label each of the endpoints of the line segment on the coordinate grid below.



What is the distance, in units, between point A and point C?

Show your work.

Answer _____ units

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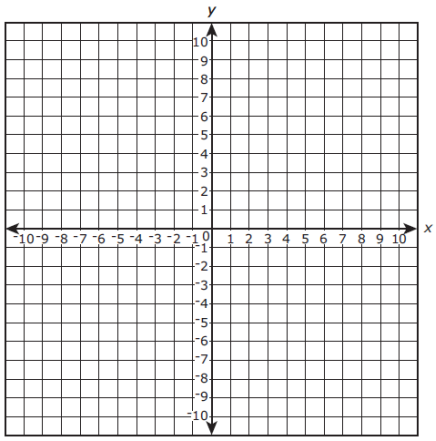
15. Jaime is drawing a map of his neighborhood on a coordinate plane. He has to plot eight different locations on his map. On the map, the distance between each line represents 1 mile. He plots his school, his house, the grocery story, the library and 4 other locations.

The library is located at the position of the coordinate point (4, 3). The school is located at the position (-5, 3). What is the distance, in miles, between the library and the school? Plot the two points and determine the distance.



Show your work.

Answer _____miles

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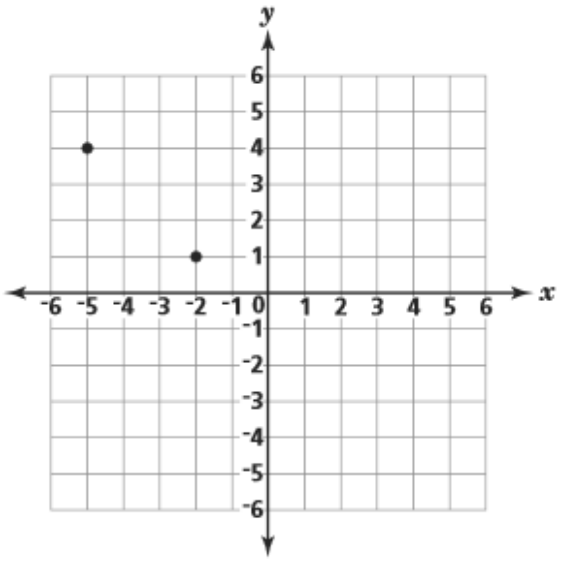
Part 3

16. The two vertices of a right triangle are shown on the coordinate plane below.



Which point(s) could represent the third vertex of the right triangle?

Show your work.

Answer _____

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Answer Key for Grade 6 Module 7 Assessment				
Question Number	**Standard**		**Answer**	**Reasons for Answers**
1	6.NS.6b		B	A. Thought that the opposite values in the second coordinate indicated a reflection over the *y*-axis C. Added the two *x*-coordinates D. The distance from the *y*-coordinates to the *x*-axis
2	6.NS.6b		D	A. Chose Quadrant I because the *x*-value is positive B. Chose Quadrant II because the *y*-value is negative C. Chose Quadrant III because the *y*-value is negative
3	6.NS.6b		C	A. Identified Quadrant I as the location with two negative values B. Chose Quadrant II because the *x*-value is negative D. Chose Quadrant IV because the y-value is negative
4	6.NS.6b		A	B. Chose because both points had the opposite sign of the original point C. Coordinates of the given point D. Reflection across the *x*-axis
5	6.NS.6c		A	B. The coordinates of Point C C. The coordinates of Point D D. The coordinates of Point B
6	6.NS.6c		D	A. Reflected Point A across the *x*-axis B. Chose the answer on the *y*-axis C. The coordinates of Point A
7	6.NS.6c		B	A. Reflected Point C across the *x*-axis and then across the *y*-axis C. Reflected Point C across the *y*-axis D. Chose the answer on the *y*-axis
8	6.NS.6c		C	A. The top point on the vertical number line B. The point at negative 1 D. Z is a negative point
9	6.NS.C.8		B	A. Given point of the rectangle C. Given point of the rectangle D. Given point of the rectangle
10	6.NS.8		D	A. Coordinates of Point D B. Coordinates of Point A C. Coordinates of Point C
11	6.NS.8		B	A. The *x*-coordinate of the first point C. The *x*-coordinate of the second point D. Added the value of the *x*-coordinates
12	6.NS.8		A	B. Subtracted instead of adding because the 3 is negative C. Subtracted instead of adding and wrote the 3 as a positive value D. Subtracted instead of adding and wrote both values as negative
13	6.NS.8		C	A. Distance of 5 vertical units from Point E B. Distance of 3 vertical units from Point E D. Distance of 5 horizontal units and then 4 vertical units from Point E
14	6.NS.8		See below	
The distance between Point A and Point C is 14 units because the scale on each axis is 2.				

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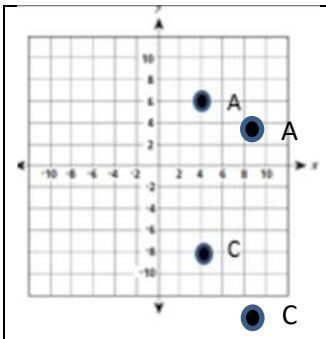
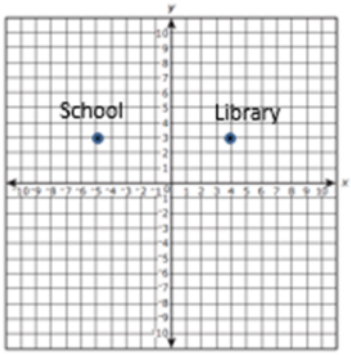


15	6.NS.8		See below

The distance between the school and library is 9 miles.



16	6.NS.8		See below

There are two possible points to form the right triangle.
One point would be (-2, 4). The other point would be (-5, 1).