TEST NAME: **Coordinate Plane (Number Sense/Geometry)**
TEST ID: **2130511**
GRADE: **06 - Sixth Grade**
SUBJECT: **Mathematics**
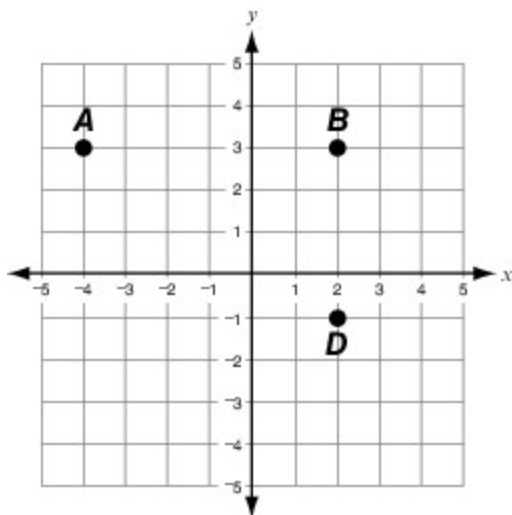TEST CATEGORY: **My Classroom**

1. Line segment *AB* has endpoints $A(-4, 4)$ and $B(2, 4)$. What is the length of line segment *AB*?

   A   8 units

   B.   6 units

   C.   2 units

   D.   −2 units

2. Look at the coordinate grid below.
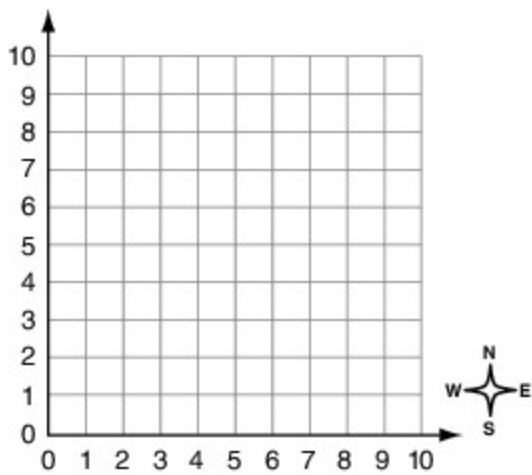

   What coordinates for point *C* would make *ABDC* a rectangle?

   A $(-4, -3)$

   B. $(-4, -1)$

   C. $(-3, -4)$

   D. $(4, 1)$

3. Which pair of points is 4 units apart?

   A. $(1, 4)$ and $(8, 4)$

   B. $(6, -1)$ and $(6, 3)$

   C. $(-3, 0)$ and $(7, 0)$

   D. $(-2, 2)$ and $(6, 10)$

4. Jared is making a map of his town on a grid. He needs to plot his house at $(2, 3)$, his school at $(2, 8)$, and the public library at $(5, 8)$.

Every weekday, Jared walks from his house to his school. After school, he walks to the library, where his mom picks him up. If each square equals 1 block, how many blocks does Jared walk each weekday?

   A.   5 blocks

   B.   7 blocks

   C.   8 blocks

   D.   10 blocks

5. The points on the coordinate plane represent 3 vertices of a rectangle.
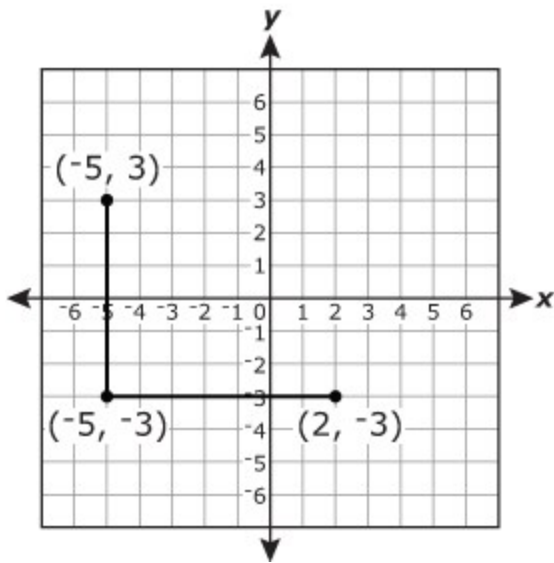
What is the perimeter of the rectangle?

A. 13 units

B. 19 units

C. 26 units

D. 42 units

6. A map of a triangular garden is plotted on a coordinate plane. The vertices of the triangle are located at $(-5, 6), (6, 6),$ and $(0, 0)$. Each unit on the coordinate plane represents 1 foot (ft) in the real garden. What is the area, in square feet, of the entire garden?
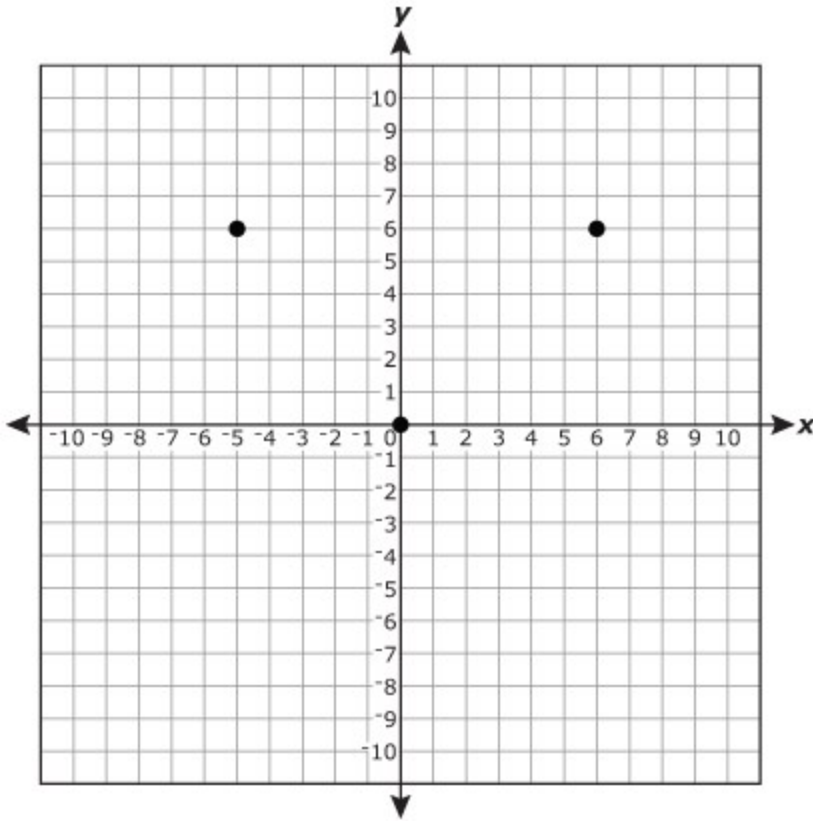
A. 6 ft²

B. 11 ft²

C. 33 ft²

D. 66 ft²

7. **Which point on the grid is represented by the coordinates (−3, 6)?**
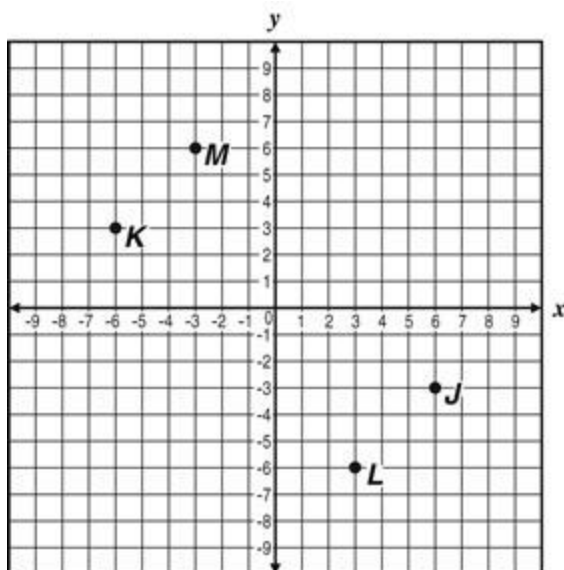
A. Point J

B. Point K

C. Point L

D. Point M

8. Connie reflected the point (−4, −1) across the y-axis. In which Quadrant is this point now located?

A. I

B. II

C. III

D. IV

9. Which statement is true?

A. Ordered pair (−6, 1) is a reflection of (6, 1) across the *y*-axis.

B. Ordered pair (−6, 1) is a reflection of (6, 1) across the *x*-axis.

C. Ordered pair (−6, 1) is a reflection of (6, − 1) across the *y*-axis.

D. Ordered pair (−6, 1) is a reflection of (6, − 1) across the *x*-axis.

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10. $\triangle DEF$ has coordinates $D(1, 3)$, $E(3, 7)$, and $F(5, 3)$. If the triangle is reflected over the *x*-axis and then reflected over the *y*-axis, what are the coordinates of the triangle?
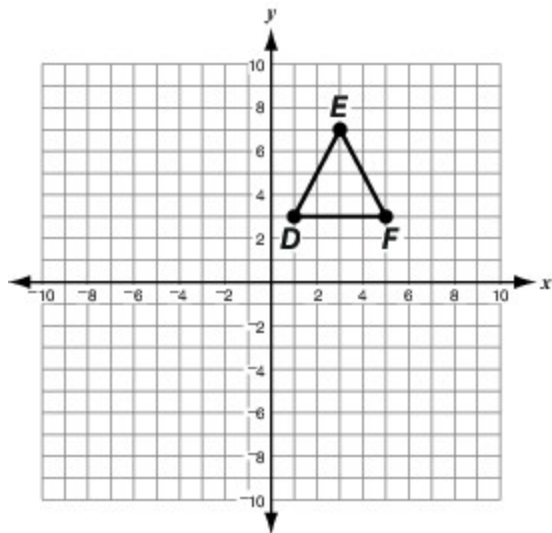
A $D(-1, -3)$, $E(-3, -7)$, and $F(-5, -3)$

B. $D(-1, 3)$, $E(-3, 7)$, and $F(-5, 3)$

C. $D(1, -3)$, $E(3, -7)$, and $F(5, -3)$

D. $D(1, 3)$, $E(3, 7)$, and $F(5, 3)$

11. The coordinates of point *S* are $(-5, 2)$. In which quadrant does point *S* lie?

A   Quadrant I

B.   Quadrant II

C.   Quadrant III

D.   Quadrant IV

12. Which point is located in Quadrant IV?

   A $(5, 3)$

   B. $(5, -3)$

   C. $(-3, 5)$

   D. $(-3, -5)$

13. Which quadrant contains the reflection of $(-7, -4)$ over the x-axis?

   A I

   B. II

   C. III

   D. IV

14. Point *M* is located at $(5, -2)$ on a coordinate plane. Point *N* is the reflection of Point *M* across the *y*-axis. What are the coordinates of Point N?

   A $(5, 2)$

   B. $(-5, 2)$

   C. $(-2, 5)$

   D. $(-5, -2)$

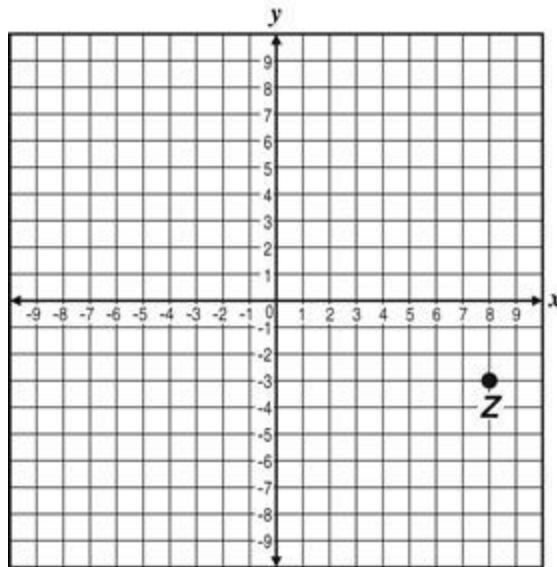15. **What are the quadrant and coordinates that BEST describe the location of Point T?**
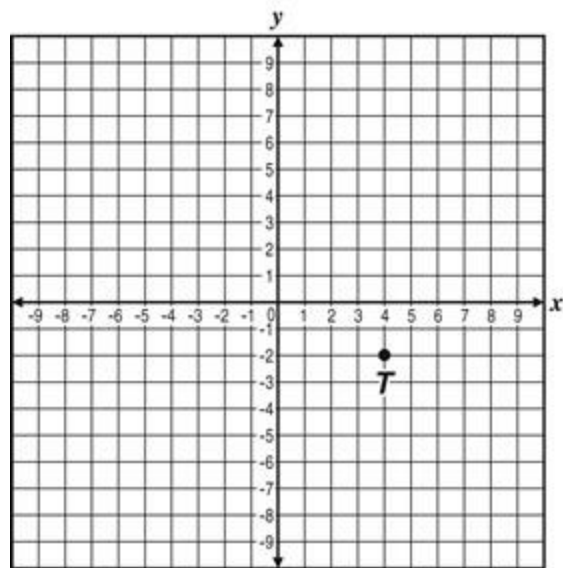
A. second quadrant at $(-2, 4)$

B. second quadrant at $(4, -2)$

C. fourth quadrant at $(-2, 4)$

D. fourth quadrant at $(4, -2)$

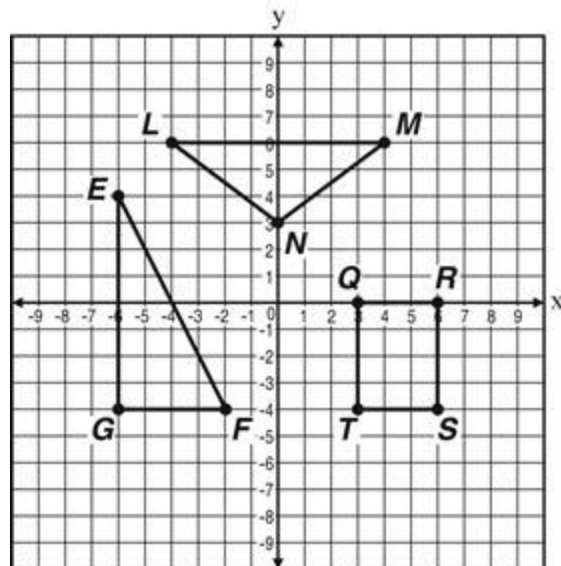16. **Which of the following coordinate pairs represents the top left corner of the rectangle graphed below?**
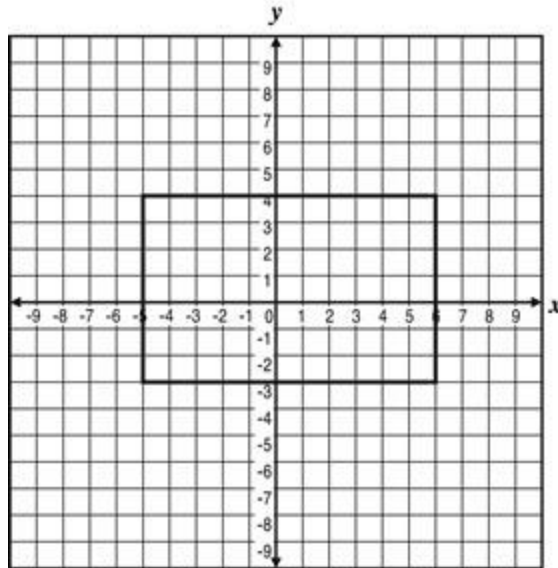
A. $(5, -4)$

B. $(4, -5)$

C. $(-4, 5)$

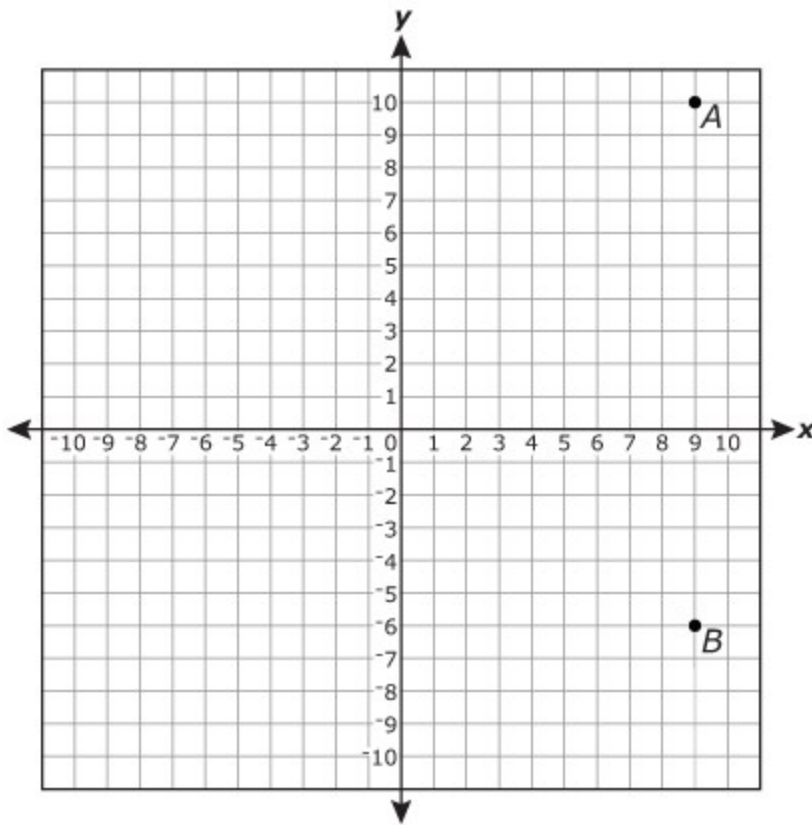D. $(-5, 4)$

17. **What are the coordinates of Point Z?**

A. $(-8, -3)$

B. $(-3, 8)$

C. $(3, -8)$

D. $(8, -3)$

18. **Using the shapes on the grid, which point represents** $(-4, 6)$?

A.   Point E

B.   Point G
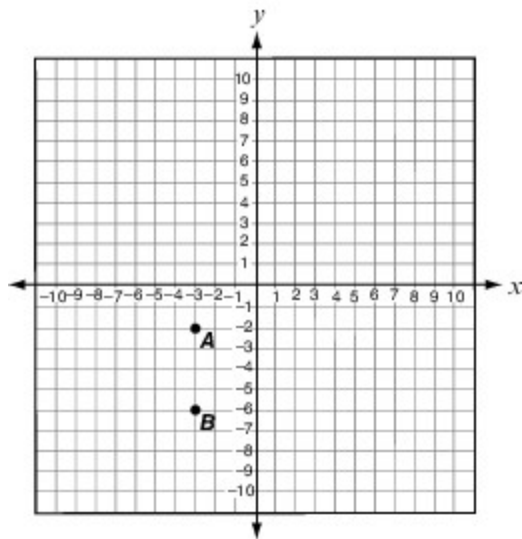
C.   Point L

D.   Point S

19. Point *A* and Point *B* are graphed on the coordinate grid below.

What is the distance between Point *A* and Point *B*?

A. 4 units

B. 6 units

C. 10 units

D. 16 units

20. What is the distance between point *A* and point *B* on the coordinate grid below?

A. 3 units

B. 4 units

C. 6 units

D. 8 units

21. What is the distance between the points (⁻8, ⁻4) and (⁻8, ⁻1)?

A. 3 units

B. 4 units

C. 5 units

22. Rectangle *QRST* has vertices at *Q*(⁻2, 1), *R*(3, 1), *S*(3, ⁻3), and *T*(⁻2, ⁻3). What is the distance between points *S* and *T*?

A. 1 unit

B. 5 units

C. 6 units

23. Triangle *JKL* has vertices at *J*(⁻3, 3), *K*(⁻3, ⁻2), and *L*(3, ⁻2). What is the distance between points *K* and *L*?

    A. 4 units

    B. 5 units

    C. 6 units