

5.G.A.1 Plot Points and Shapes on a Coordinate Plane

5.G.A.1 Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates.

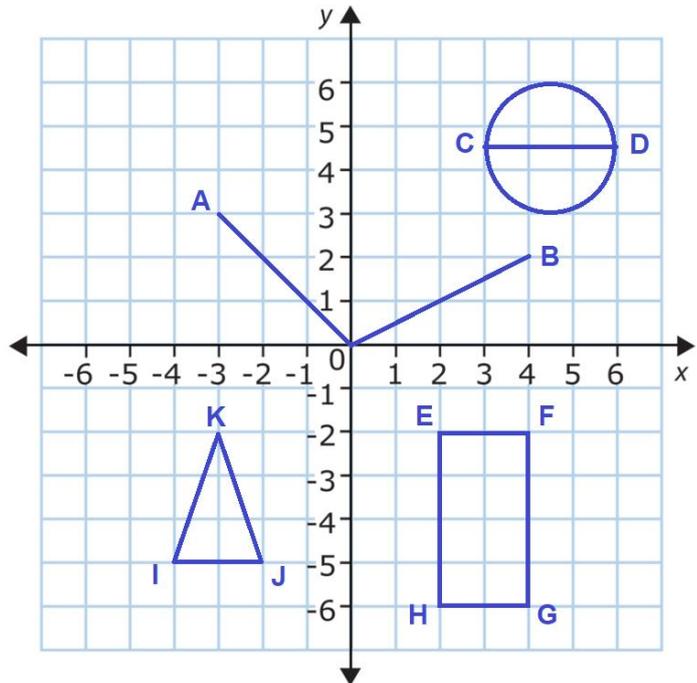
Study the graph below and answer the questions that follow.

1. What type of triangle is $\triangle IJK$?

2. Side IJ of $\triangle IJK$ is _____ units long.
3. Which of the four vertices of rectangle EFGH is closest to the origin?

4. What is the length of rectangle EFGH?

5. Find the perimeter of rectangle EFGH.



6. Identify two vertices of rectangle EFGH that are equidistant from the y-axis.

7. Which is longer, OA or OB? _____
8. How many units long is the diameter of the circle? _____
9. Find the area of rectangle EFGH. _____
10. Which of the four vertices of rectangle EFGH is farthest from the origin? _____
11. Write the coordinates of point I. _____
12. How many units should you move along the x-axis to reach from vertex K to point C?

13. Name one point that is equidistant with point B from the x-axis. _____

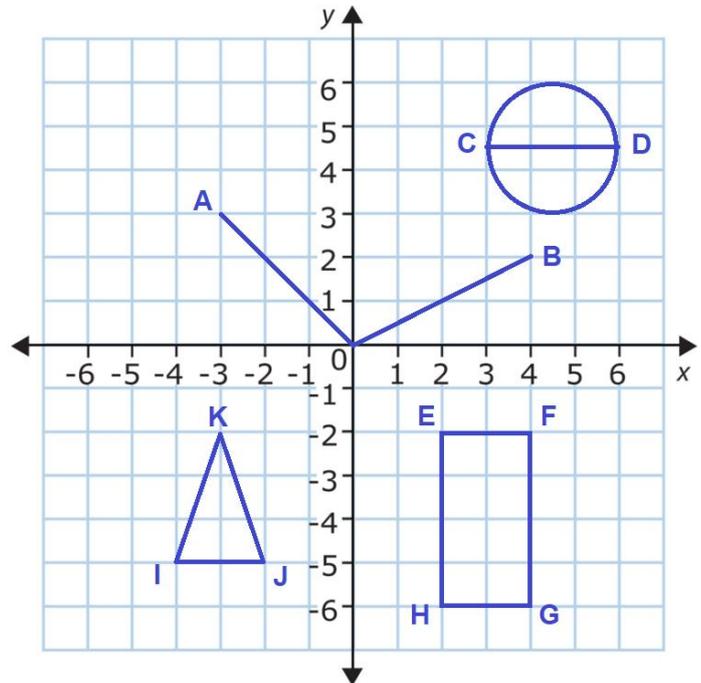
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Answer Key

5.G.A.1 Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates.

Study the graph below and answer the questions that follow.

1. What type of triangle is $\triangle IJK$?
isosceles
2. Side IJ of $\triangle IJK$ is 2 units long.
3. Which of the four vertices of rectangle EFGH is closest to the origin?
vertex E
4. What is the length of rectangle EFGH?
4 units
5. Find the perimeter of rectangle EFGH.
12 units



6. Identify two vertices of rectangle EFGH that are equidistant from the y-axis.
E and H; F and G
7. Which is longer, OA or OB? Use a scale. OB
8. How many units long is the diameter of the circle? 3 units
9. Find the area of rectangle EFGH. 8 square units
10. Which of the four vertices of rectangle EFGH is farthest from the origin? vertex G
11. Write the coordinates of point I. (-4, -5)
12. How many units should you move along the x-axis to reach from vertex K to point C?
6 units
13. Name one point that is equidistant with point B from the x-axis. point K or point E or point F