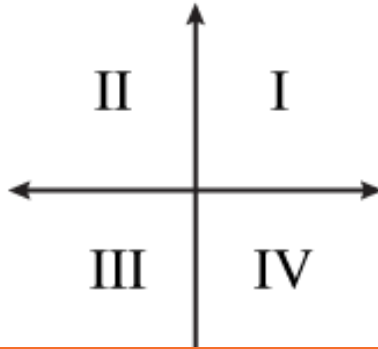


COORDINATES

What are coordinates?

The use of **coordinates** pertains to **graphing** and the quadrants that are formed by the x and y-axis. The **x-axis is the horizontal axis** on a graph and the **y-axis is the vertical axis** on a graph. The x and y-axis make up the following quadrants:



When plotting a point, first look at the x-value. If the x-value is positive, move to the right on the x-axis. If the x-value is negative, move to the left on the x-axis. Then look at the y-value. If the y-value is positive, move up on the y-axis. If the y-value is negative, move down on the y-axis. The intersection of these two lines is the point.



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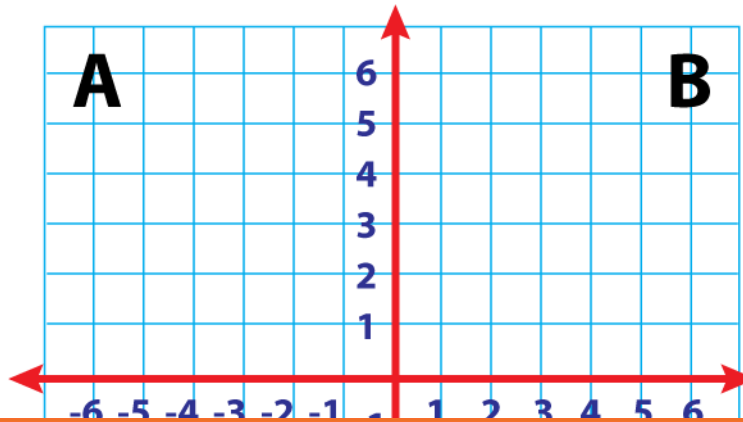
How to use coordinates:

- To plot points on a grid, **look at the x value first** and move that many spaces over on the x-axis, either positive or negative.
- **Next, look at the y value** and move that many spaces up or down on the y-axis depending if the value is positive or negative and plot the point.
- By plotting various points and connecting the points, angles and shapes can be drawn.
- The three types of angles are **acute** (less than 90°) **obtuse**, (greater than 90°) and **right** (90°).
- When shapes are plotted on a grid, their area and perimeter can be found by counting the blocks that make up the grid. One block equals one unit. To find perimeter, the blocks on all the sides of the shape should be counted. To find the area of a rectangle, the length and the width would be counted in blocks and then multiplied since $\text{area} = \text{length} \cdot \text{width}$.

Try this!

1. Plot the following on a grid:

(2, 4) (-6, 5) (-3, -1) (7, -8)



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What quadrant were these points in?

2. What kind of angle is less than 90° ?
3. What kind of angle is 90° ?
4. What is the perimeter of a rectangle with 3 blocks for a height and 5 blocks for a width?
5. What is the area of a square with sides 4 blocks long?