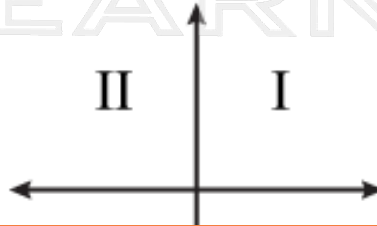


# COORDINATES

## 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  
there  
posi  
posi  
qua



## PREVIEW

How

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- 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  $90^\circ$ ) **obtuse**, (greater than  $90^\circ$ ) and **right** ( $90^\circ$ ).
- 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!

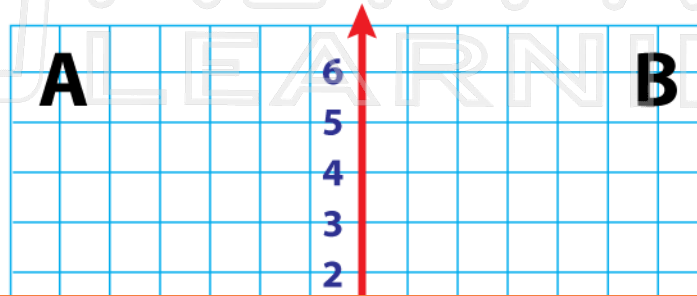
1. Plot the following on a grid:

(2, 4)

(-6, 5)

(-3, -1)

(7, -8)




**PREVIEW**

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what quadrant were these points in?

2. What kind of angle is less than  $90^\circ$ ?

3. What kind of angle is  $90^\circ$ ?

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?