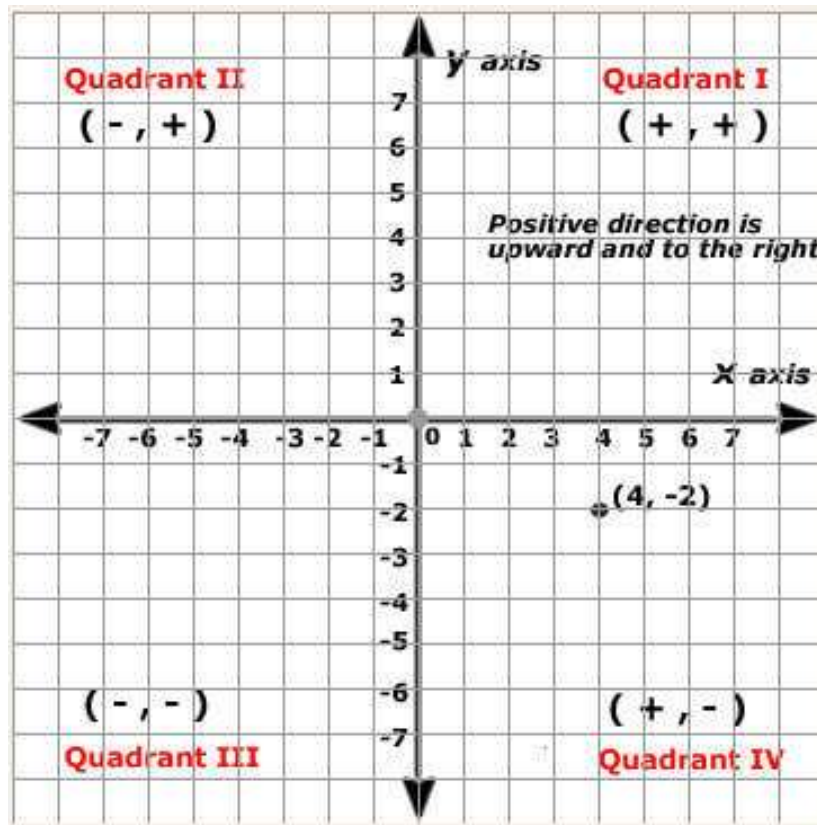# Chapter 10: The Coordinate Plane and Ordered Pairs

Coordinate Plane

The **coordinate plane** is based on two perpendicular lines (called **axes**). The horizontal line is called the **x-axis** and the vertical line is called the **y-axis**. The point where the two lines intersect is called the **origin**. The coordinate plane is then divided into four **quadrants**.

You can find any point on the coordinate plane by finding two values, the x-coordinate and the y-coordinate. The **x-coordinate** is how many spaces the point is to the left or right of the origin. The **y-coordinate** is how many spaces the point is above or below the origin. If you look on the coordinate plane above, the point (4, -2) is found 4 spaces to the right of the origin (x-coordinate is 4) and 2 spaces below the origin (y-coordinate is -2).

Remember that in an **ordered pair**, the x-coordinate comes first and the y-coordinate comes second.
<div align="center">**(x-coordinate, y-coordinate)**</div>

Many people get the coordinates confused. Just remember left/right is first and the x-axis is left/right. Up/down is second and the y-axis is up/down.