

## 8.5

## Graphing on a Coordinate Grid

**Focus** Identify and plot points in four quadrants of a coordinate grid.

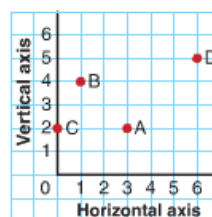
You have plotted points with whole-number coordinates on a grid.

Point A has coordinates (3, 2).

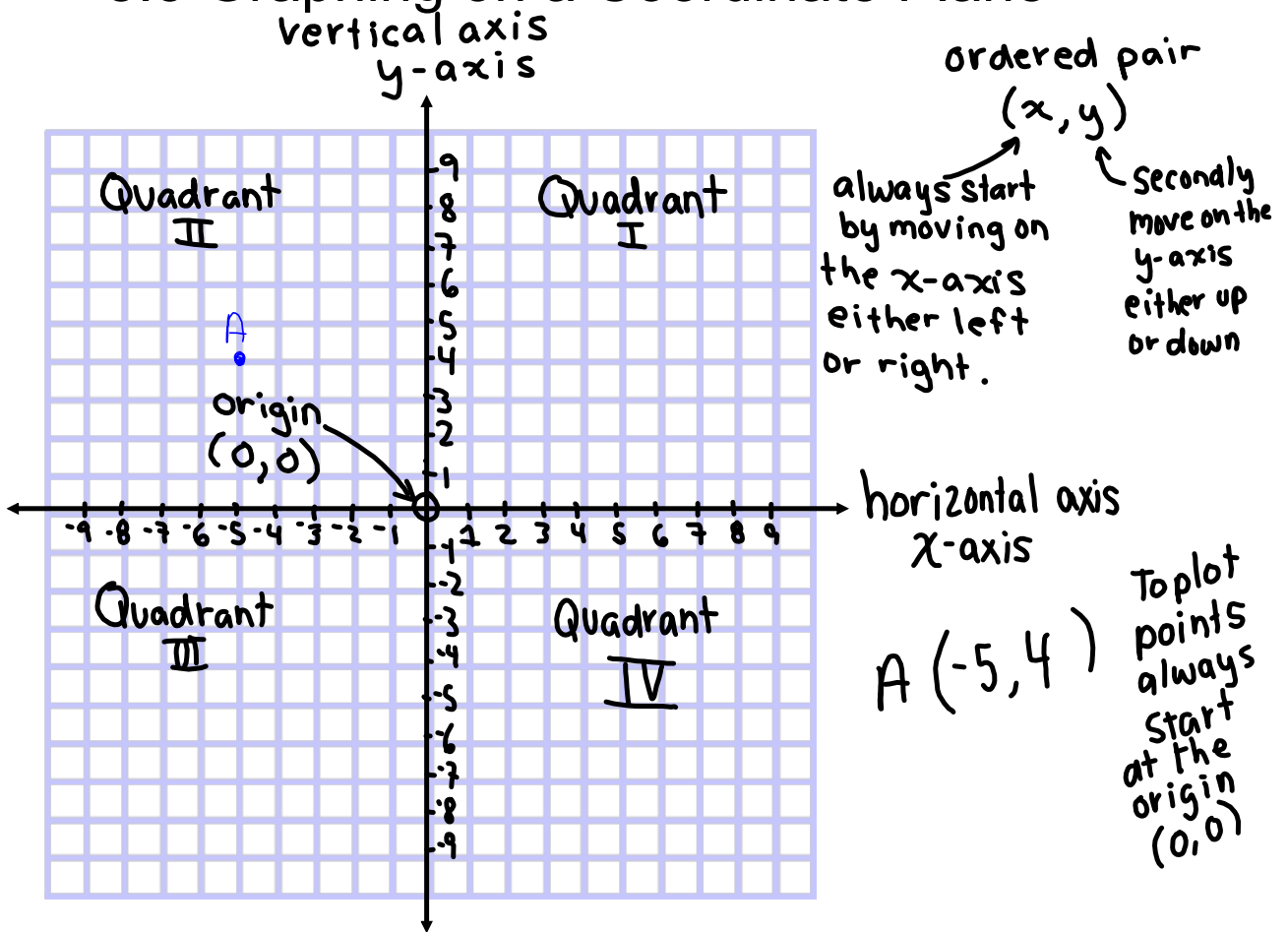
What are the coordinates of point B? Point C? Point D?

A vertical number line and a horizontal number line intersect at right angles at 0.

This produces a grid on which you can plot points with integer coordinates.



# 8.5 Graphing on a Coordinate Plane



**Example (1):** Write the coordinates of each point.

i) Q  $(0, -30)$       ii) S  $(-25, 0)$

$(x, y)$   
 left (-) or right (+)      up (+) or down (-)

**Example (2):** Plot each point on the grid

i) F(0, -15)      ii) G(-40, 0)

ii) H(-10, 20)

Always start at the origin (0,0).

