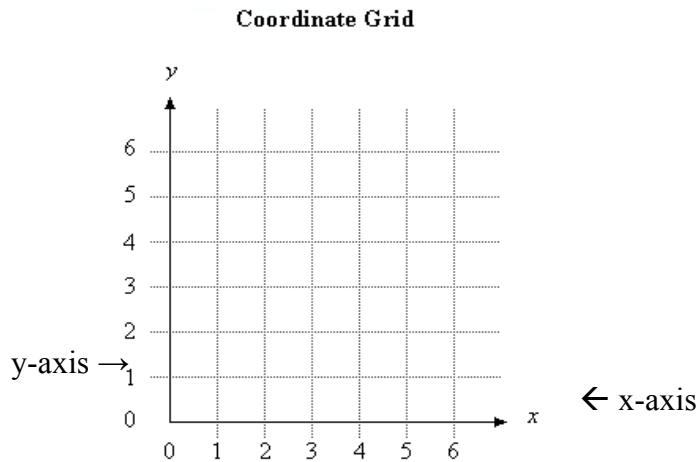


## Lesson: Coordinate Grids

**Third Grade Objective 3.02:** Use a rectangular coordinate system to solve problems.

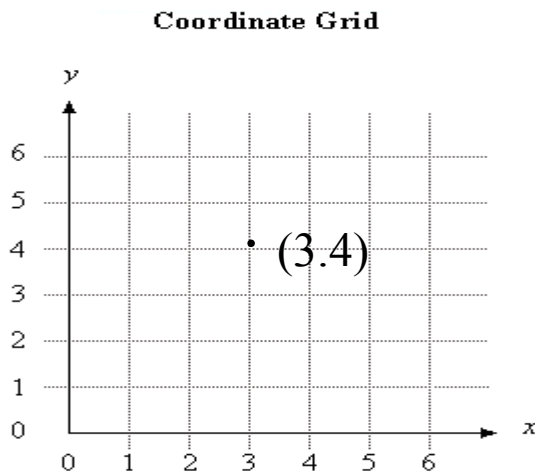
### Lesson

A coordinate grid is set of horizontal and vertical lines used to organize and display data. The main perpendicular lines are called **axes**. The horizontal **axis** is called the x-axis and the vertical **axis** is called the y-axis. The point where the axes meet is the origin, or  $(0,0)$ .

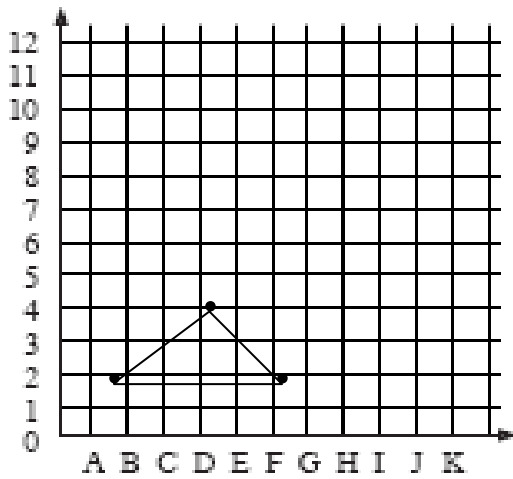


The numbers (or letters) on the x-axis and y-axis are used to plot points, or **ordered pairs**. Ordered pairs are written in parentheses like this  $(x\text{-axis}, y\text{-axis})$ . To plot an ordered pair, first count over on the x-axis and then up on the y-axis.

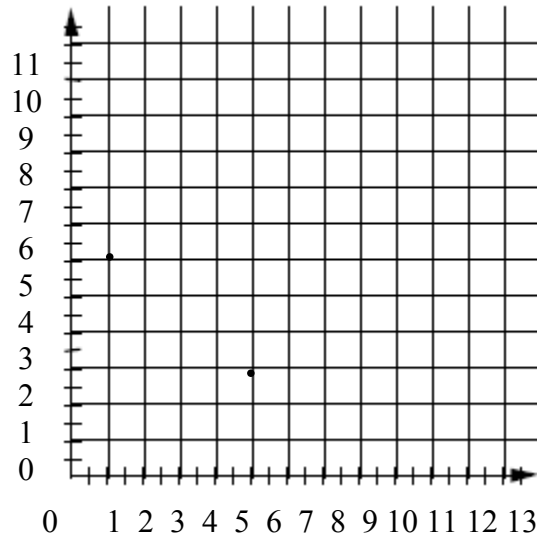
This is ordered pair  $(3, 4)$ :



We can graph a shape on a coordinate grid. Graph the triangle with vertices (B,2), (F,2), and (D,4).



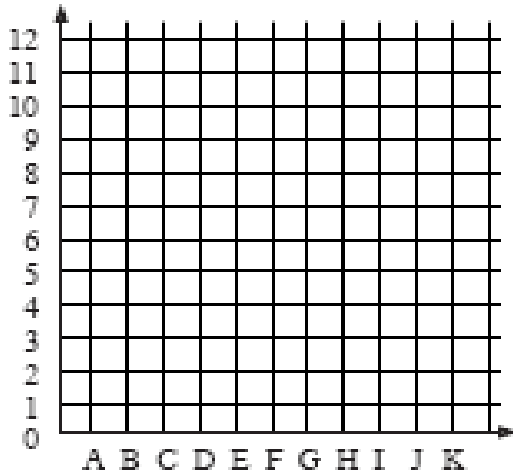
How would you travel from (1,6) to (5,3)?



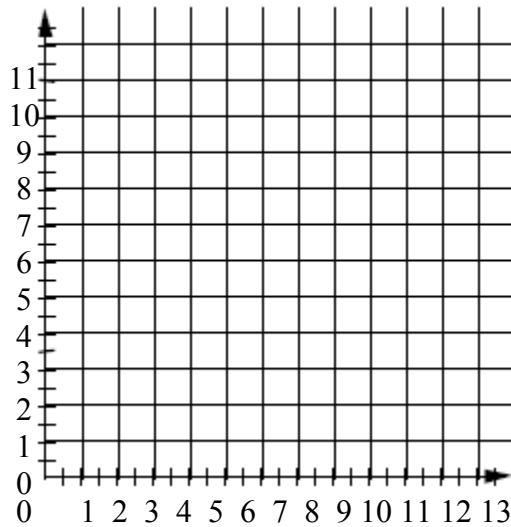
From (1,6) you could travel south (or down) 3 spaces, then east (or to the right) 4 spaces.

**Try these on your own!**

1. Graph the square (C, 3), (C, 8), (H, 8), (H, 3)



2. Describe how you would travel from (2, 7) to (6, 3):



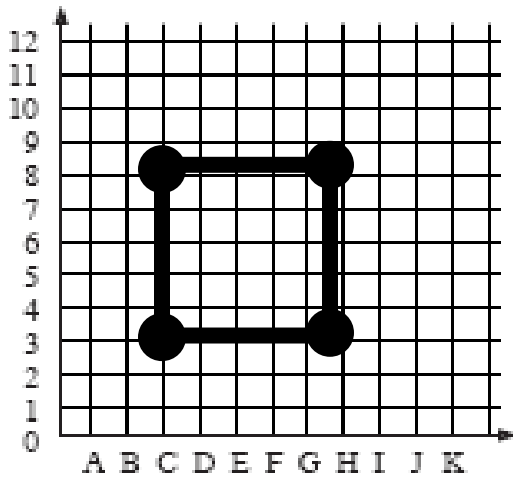
Go here for online games with coordinate grid practice:

<http://www.primaryresources.co.uk/online/coordinates.swf>

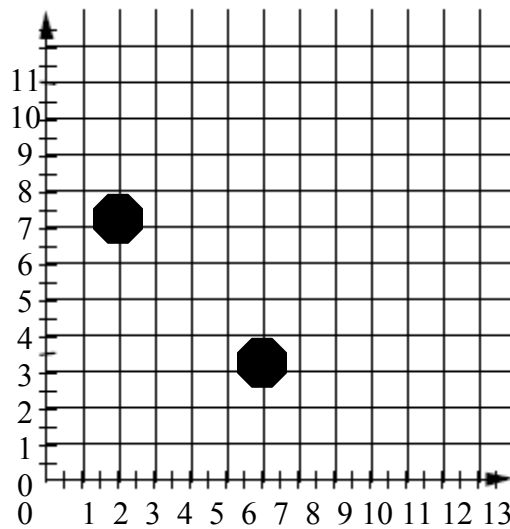
<http://www.bbc.co.uk/schools/ks2bitesize/maths/activities/grids.shtml>

**Check your answers**

1. Graph the square  $(C, 3), (C, 8), (H, 8), (H, 3)$



2. Describe how you would travel from  $(2, 7)$  to  $(6, 3)$ :



From  $(2, 7)$ , travel South (or down) 4 space, and east (or to the right) 4 spaces.