Coordinates in the first quadrant

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A sample from this topic. The complete topic collection contains three different resources and worked solutions.

Show your thinking using words, working or a labelled drawing. Use the explanations and example first.

What you will practise

• Coordinates in the first quadrant

• Explain and check an answer with an appropriate representation.

Useful starting skills: Use objects, drawings or a number line to explain a simple idea.

Coordinates identify an exact point using an ordered pair (x, y). Begin at the origin, use the horizontal x-coordinate, then the vertical y-coordinate. Each grid interval in these activities is one unit.

A move right increases x and a move up increases y; left and down decrease them. In the first quadrant, coordinates are positive; the axes form its boundaries.

Worked example

Move from (2, 1) three units right and two units up.

Add 3 to x:2+3=5.

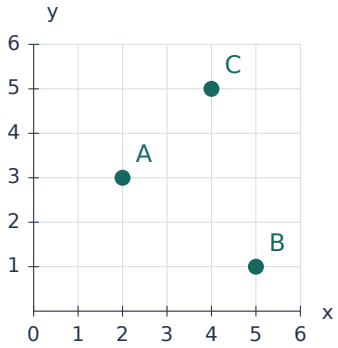
Add 2 to y:1+2=3.

Answer: (5, 3)

Try it yourself

Name: _____ Date: _____

1. On a first-quadrant grid, plot A(2, 3), B(5, 1) and C(4, 5). Explain which coordinate you use first.



2. A point has x=3 and y=6. Write its coordinates.

Answers and explanations

Check the method as well as the final answer. An alternative correct method is also valid.

1. Move horizontally by x, then vertically by y

The ordered pair (x, y) fixes the horizontal position first. The supplied diagram can be used to check your construction.

2. (3, 6)

The x-coordinate is first and the y-coordinate second.

Curriculum reference: VC2M5SP02

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