Integers and the four-quadrant plane

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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

• Integers and the four-quadrant plane

• 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. Negative coordinates extend left and below the origin. Integers are useful for temperatures, levels and scores on either side of zero.

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. Order -6, 2, 0 and -1 from least to greatest.



2. The temperature rises from -3°C to 5°C. How large is the rise?

Answers and explanations

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

1. -6, -1, 0, 2

Numbers farther left on a number line are smaller.

2. 8°C

Count 3 degrees to zero and 5 more degrees above zero.

Curriculum reference: VC2M6N01; VC2M6SP02

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