Year 7 | Number

Rational numbers and equivalent forms

Learn and practise | Free preview

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

Read the explanation and worked example. Show your working; use a calculator only where asked.

What you will practise

• Compare rational numbers and connect fractions, decimals and percentages.

• Explain a method and check the reasonableness of a result.

Useful starting skills: Use the prerequisite operations and representations shown in the worked example.

Equivalent fractions multiply or divide numerator and denominator by the same non-zero number. Dividing numerator by denominator gives a decimal; multiplying a decimal by 100 gives a percentage.

On a number line, values increase to the right. Negative numbers farther from zero are smaller. Convert to a common form when comparisons are difficult.

Worked example

Order -3/4, 0.2 and -1/2 from least to greatest.

Convert to -0.75, 0.2 and -0.5.

Read left to right on a number line.

Answer: -3/4, -1/2, 0.2

Try it yourself

Name: _____ Date: _____

1. Simplify 18/30.

2. Write 0.35 as a fraction and percentage.

Answers and explanations

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

1. 3/5

Divide numerator and denominator by 6.

2. 7/20; 35%

35/100 simplifies by 5.

Curriculum reference: VC2M7N03

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