Year 5 | Number

Connecting fractions, decimals and percentages

Learn and practise | Free preview

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

• Connecting fractions, decimals and percentages

• Explain and check an answer with an appropriate representation.

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

Percent means “per hundred”. A whole is 100%, and familiar fractions can be renamed as decimals and percentages without changing their size.

Compare representations by converting them to a shared form. Check the whole: the same percentage of different-sized wholes need not represent the same actual amount.

Worked example

Rename one-quarter as a decimal and percentage.

1/4 = 25/100 because both numerator and denominator are multiplied by 25.

Twenty-five hundredths is 0.25 and 25%.

Answer: 1/4 = 0.25 = 25%

Try it yourself

Name: _____ Date: _____

1. Write one-half as a decimal and a percentage.

2. A hundred-square has 25 shaded cells. Write the shaded amount as a fraction in simplest form and a decimal.

Answers and explanations

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

1. 0.5 and 50%

A half is 50 of 100 equal parts.

2. 1/4 and 0.25

25/100 simplifies to 1/4.

Curriculum reference: VC2M5N04

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