Year 7 | Number

Fraction and decimal operations

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

• Calculate with positive fractions and decimals using efficient operations.

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

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

For fraction addition and subtraction, first use a common denominator. For multiplication, multiply numerators and denominators, cancelling common factors when helpful.

Dividing by a non-zero fraction means multiplying by its reciprocal. For decimals, preserve place value and check the answer against an estimate.

Worked example

Calculate 3/4 ÷ 2/5.

Multiply 3/4 by 5/2.

The result is 15/8.

Answer: 15/8 = 1 7/8

Try it yourself

Name: _____ Date: _____

1. Calculate 2/3 + 1/4.

2. Calculate 5/6 - 1/3.

Answers and explanations

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

1. 11/12

8/12 + 3/12.

2. 1/2

5/6 - 2/6.

Curriculum reference: VC2M7N05; VC2M7N06

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