ASPIRE TO POWER LEARNING

Year 8 | Number

Integer and rational arithmetic

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 signed fractions, decimals and integers.

• 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 multiplication and division, equal signs give a positive result and different signs give a negative result. Addition and subtraction follow directed movement on a number line.

Preserve brackets and order of operations. Estimate magnitude and predict the sign before computing a fraction or decimal result.

Worked example

Calculate (-3/4) ÷(1/2).

Multiply -3/4 by 2.

The signs differ, so the result is negative.

Answer: -3/2

Try it yourself

Name: _____ Date: _____

1. Calculate -7×8.

2. Calculate -36÷(-9).

Answers and explanations

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

1. -56

Different signs give a negative product.

2. 4

Equal signs give a positive quotient.

Curriculum reference: VC2M8N04

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