Year 7 | Number

Rounding and checking calculations

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

• Choose useful rounding and estimate to check calculations.

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

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

To round to a chosen decimal place, inspect the next digit. Five or more increases the retained digit by one; smaller digits leave it unchanged.

An estimate checks scale, but contexts can require rounding up. Materials bought in whole packs need enough packs even when ordinary rounding would give too few.

Worked example

A length is 7.486 m. Round to 2 decimal places.

The hundredths digit is 8; the next digit is 6.

Increase 8 to 9.

Answer: 7.49 m

Try it yourself

Name: _____ Date: _____

1. Round 13.764 to one decimal place.

2. Round 0.04786 to three decimal places.

Answers and explanations

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

1. 13.8

The hundredths digit is 6.

2. 0.048

The fourth decimal digit is 8.

Curriculum reference: VC2M7N04

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