Year 8 | Number

Percentage change and error

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 percentage increase, decrease and measurement error.

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

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

Percentage change is (change/original)×100%. Increasing by p% multiplies by 1+p/100; decreasing multiplies by 1-p/100.

Percentage error compares the absolute difference with an accepted or reference value. Always state that reference; using the measured value changes the answer.

Worked example

A price rises from$80 to$92. Find the percentage increase.

Increase=12.

12/80×100=15.

Answer: 15%

Try it yourself

Name: _____ Date: _____

1. Increase 240 by 15%.

2. Decrease 350 by 12%.

Answers and explanations

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

1. 276

240×1.15.

2. 308

350×0.88.

Curriculum reference: VC2M8N05

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