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Variation using a Maths GCSE question

Year 11 (Higher)

Overview

This document contains...

A set of connected questions that link to a past GCSE question

Points to consider when using this resource

Each variation of the exam question should be considered as part of a learning journey. Teachers may wish to consider models and images to support students to access the problems.

Year 11 H: variation: AQA 2018 P1 Q6

Fractions of quantities and equivalent fractions

Prior knowledge to review

- Division strategies
- Place value knowledge and multiplication by 100
- Knowledge of tables and associated facts
- Equivalent fractions
- Simplification of fractions using factors
- Recognition of primes to 100
- Knowledge of the whole and the part as a numerator and a denominator

The height of Zak is 180 centimetres

The height of Fred is 160 centimetres

Write the height of Zak as a fraction of the height of Fred.

Give your answer in its simplest form.

[3 marks]

The height of Zak is 1.8 metres

The height of Fred is 1.6 metres

Write the height of Zak as a fraction of the height of Fred.

Give your answer in its simplest form.

[3 marks]

The height of Zak is 1.7 metres

The height of Fred is 1.4 metres

Write the height of Zak as a fraction of the height of Fred.

Give your answer in its simplest form.

[3 marks]

The height of Zak is 1.84 metres

The height of Fred is 1.38 metres

Write the height of Zak as a fraction of the height of Fred.

Give your answer in its simplest form.

[3 marks]

Year 11 H: variation: AQA 2018 P1 Q6

Fractions of quantities and equivalent fractions

- 6** The height of Zak is 1.86 metres.
The height of Fred is 1.6 metres.
- Write the height of Zak as a fraction of the height of Fred.
Give your answer in its simplest form.

[3 marks]

The height of Zak is 1.85 metres

The height of Fred is 1.11 metres

Write the height of Zak as a fraction of the height of Fred.

Give your answer in its simplest form.

[3 marks]

Write the height of Zak as a percentage of the height of Fred

Write the height of Fred as a fraction of the height of Zac

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