

Variation using a maths GCSE question

Year 11 (Higher)

HIAS Maths Team (secondary) January 2021 Final version

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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 2019 P2 Q7

Area of rectangles and triangles with ratio







Prior knowledge to review

- Pythagoras
- Area of triangles
- Knowledge of ratio





AC = 5 cm



The diagram shows rectangle ABDE and right-angled triangle ABC.

BC = 3 cm A formal format is a constant of the second second

BC: CD = 1:2

Work out the area of rectangle ABDE.

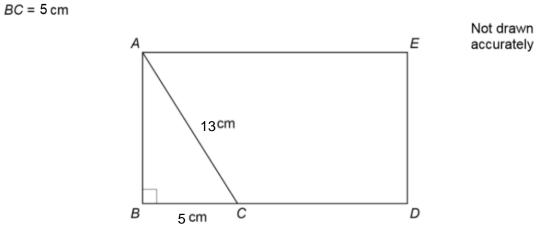
[4 marks]

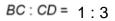


AC = 13 cm



The diagram shows rectangle ABDE and right-angled triangle ABC.





Work out the area of rectangle ABDE.

[4 marks]





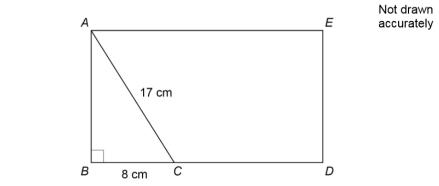
Year 11 H: variation: AQA 2019 P2 Q7

Area of rectangles and triangles with ratio

7 The diagram shows rectangle *ABDE* and right-angled triangle *ABC*.

AC = 17 cm

BC = 8 cm



BC : CD = 1 : 2

Work out the area of rectangle ABDE.

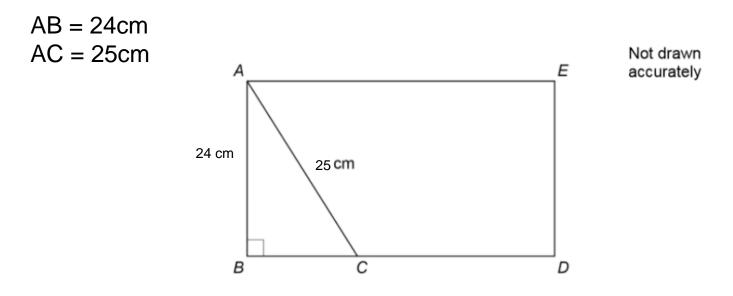
[4 marks]

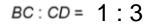




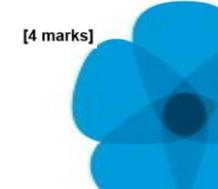


The diagram shows rectangle ABDE and right-angled triangle ABC.





Work out the area of rectangle ABDE.







HIAS Maths Team (secondary)

Contact details Jo.Lees@hants.gov.uk Jenny.Burn@hants.gov.uk

For further details on the full range of services available please contact us using the following details:

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