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Final version

# 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 2019 P2 Q7**

## **Area of rectangles and triangles with ratio**

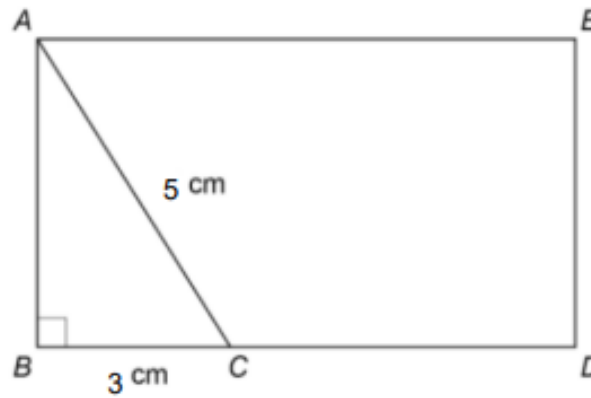
## Prior knowledge to review

- Pythagoras
- Area of triangles
- Knowledge of ratio

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

$AC = 5 \text{ cm}$

$BC = 3 \text{ cm}$



Not drawn  
accurately

$BC : CD = 1 : 2$

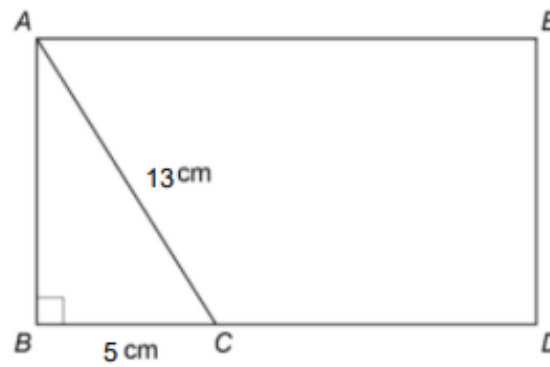
Work out the area of rectangle  $ABDE$ .

[4 marks]

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

$AC = 13 \text{ cm}$

$BC = 5 \text{ cm}$



Not drawn accurately

$BC : CD = 1 : 3$

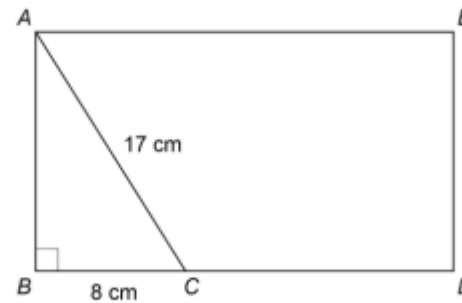
Work out the area of rectangle  $ABDE$ .

[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



Not drawn accurately

$BC : CD = 1 : 2$

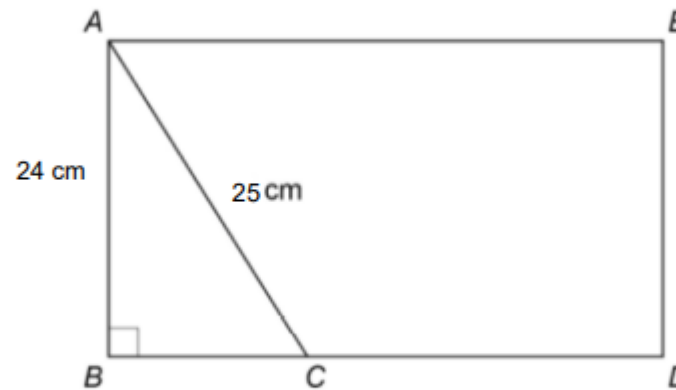
Work out the area of rectangle  $ABDE$ .

[4 marks]

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

$$AB = 24\text{cm}$$

$$AC = 25\text{cm}$$



Not drawn  
accurately

$$BC : CD = 1 : 3$$

Work out the area of rectangle  $ABDE$ .

[4 marks]



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

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