Name: SOLUTIONS

GCSE (1 - 9)

Area of a Trapezium

Buy me a coffee

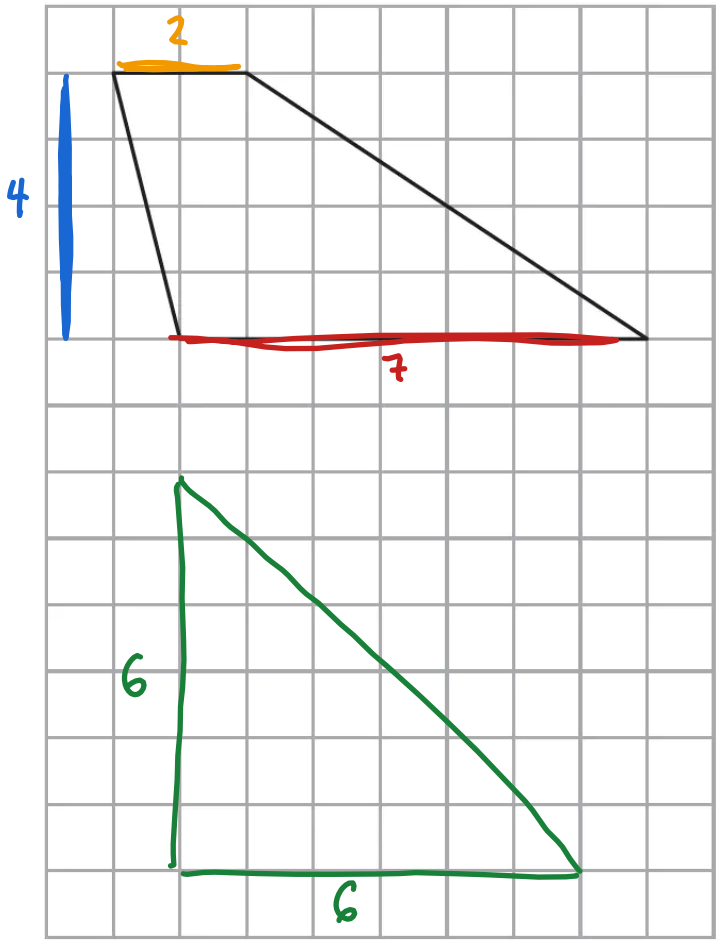
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These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

Question	Where the question appeared
1	Edexcel, GCSE, Summer 2018, Paper 3F, Q21
2	Edexcel, GCSE, Autumn 2018, Paper 2F, Q24

1

Here is a trapezium drawn on a centimetre grid.



Area = $\frac{1}{2}(2+7) \times 4$

Area = $\frac{1}{2} \times 9 \times 4$

$= \frac{1}{2} \times 36$

$= 18$

Any triangle with an area of $18\ cm^2$.

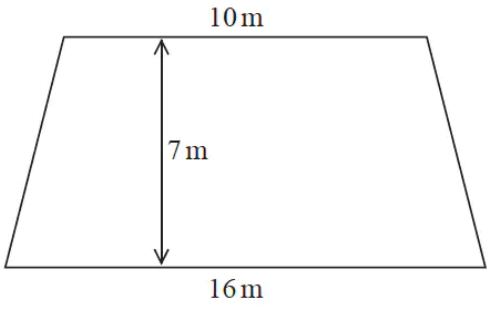
On the grid, draw a triangle equal in area to this trapezium.

(Total for Question 21 is 2 marks)

[Edexcel, GCSE, Summer 2018, Paper 3F, Q21]
[Edexcel, GCSE, Summer 2018, Paper 3H, Q03]

2

The diagram shows a floor in the shape of a trapezium.





£16.99

John is going to paint the floor.

Each 5 litre tin of paint costs £16.99
1 litre of paint covers an area of 2 m²

$5 \times 2 = 10\text{m}^2$ per tin of paint.

John has £160 to spend on paint.

Has John got enough money to buy all the paint he needs?
You must show how you get your answer.

Area of floor $= \frac{1}{2}(10+16) \times 7$

$= \frac{1}{2} \times 26 \times 7$

$= 13 \times 7 = 91\text{m}^2$

Tins required $= \frac{91}{10} = 9.1$ tins (10 tins)

Cost $= 10 \times £16.99 = £169.90$

No. John does not have enough money.

(Total for Question 24 is 5 marks)

[Edexcel, GCSE, Autumn 2018, Paper 2F, Q24]
[Edexcel, GCSE, Autumn 2018, Paper 2H, Q05]