

Name:

Exam Style Questions

## Area of a Trapezium



Equipment needed: Calculator, pen

### Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

[www.corbettmaths.com/contents](http://www.corbettmaths.com/contents)

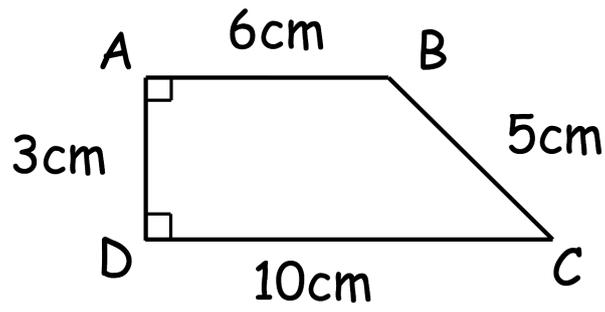
Video 48



Answers and Video Solutions



1. Below is a trapezium, ABCD.

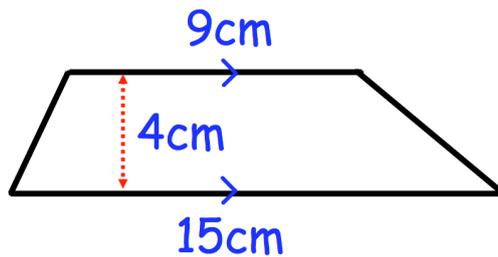


Work out the area of the trapezium.

.....cm<sup>2</sup>  
(2)

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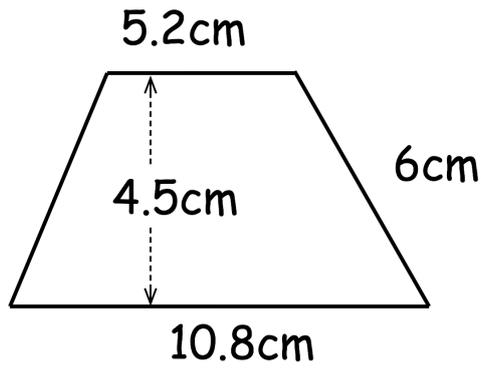
2.



Work out the area of the trapezium.

.....cm<sup>2</sup>  
(2)

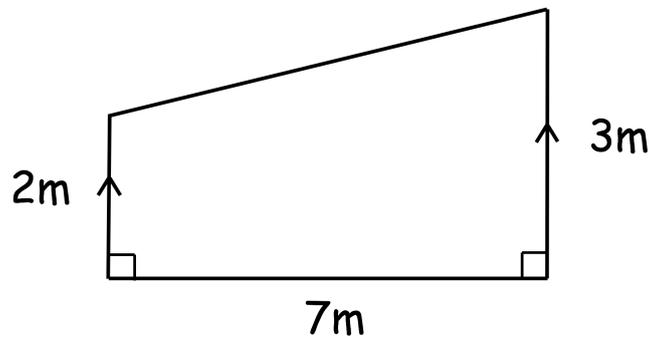
3. Shown below is a trapezium.



Calculate the area of the trapezium.

.....cm<sup>2</sup>  
(2)

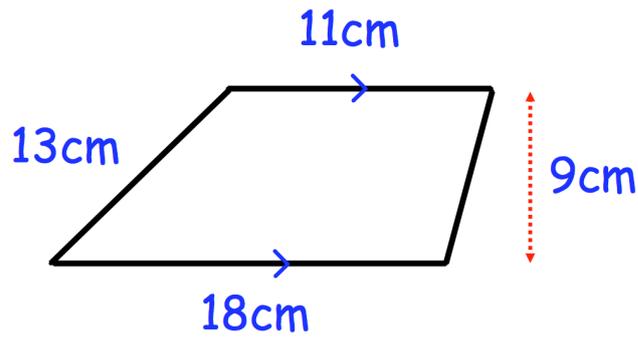
4. The diagram shows a shed wall.



Find the area of the wall.

.....m<sup>2</sup>  
(2)

5. Shown below is a trapezium.

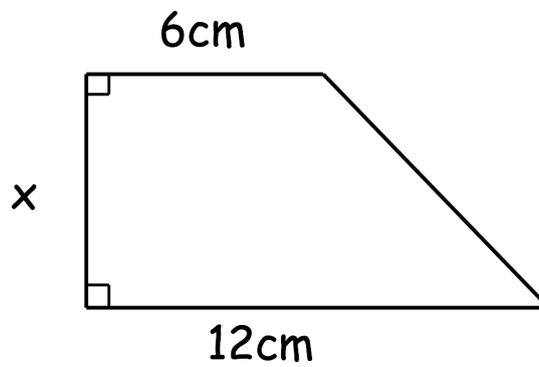


Work out the area of the trapezium.

.....cm<sup>2</sup>  
(2)

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6.

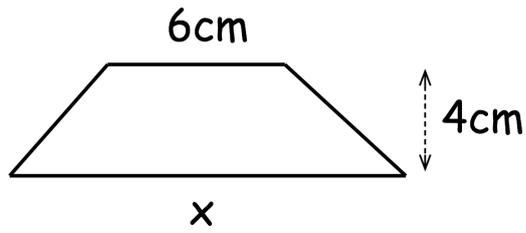


The area of the trapezium is 63cm<sup>2</sup>.

Work out the value of x.

.....cm  
(2)

7.

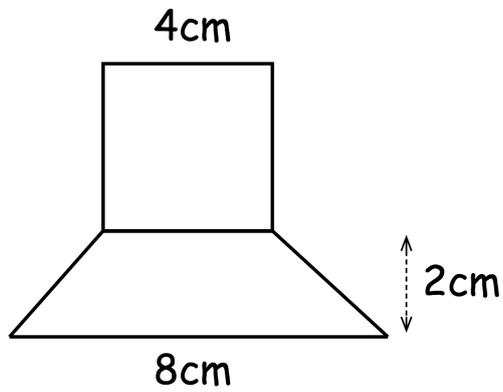


The area of the trapezium is  $34\text{cm}^2$ .

Work out the value of  $x$ .

.....cm  
(2)

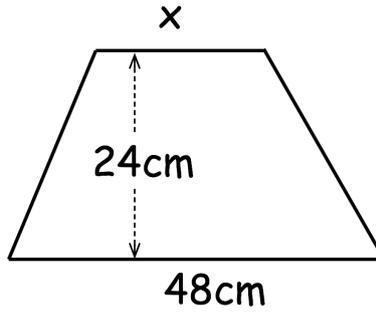
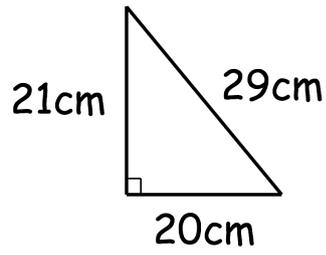
8. A club logo is made from a square and a trapezium.



Calculate the area of the logo

.....cm<sup>2</sup>  
(4)

9. Shown below is a triangle and a trapezium.

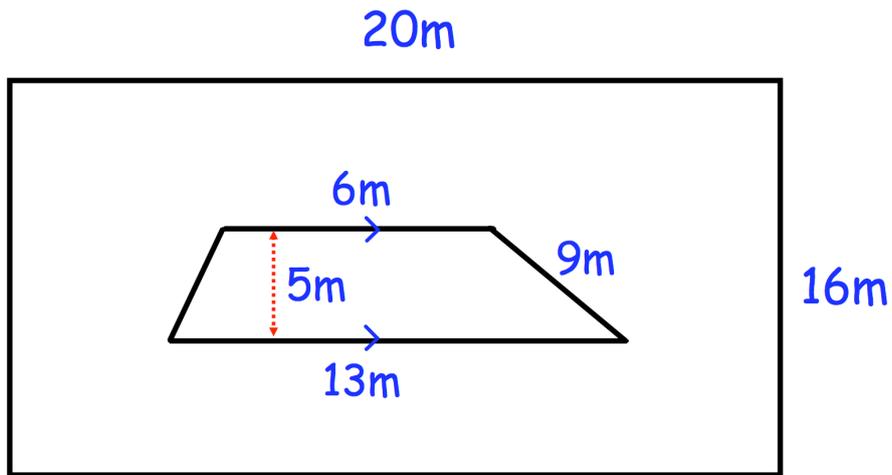


The area of the trapezium is four times the area of the triangle.

Find  $x$ .

.....cm  
(5)

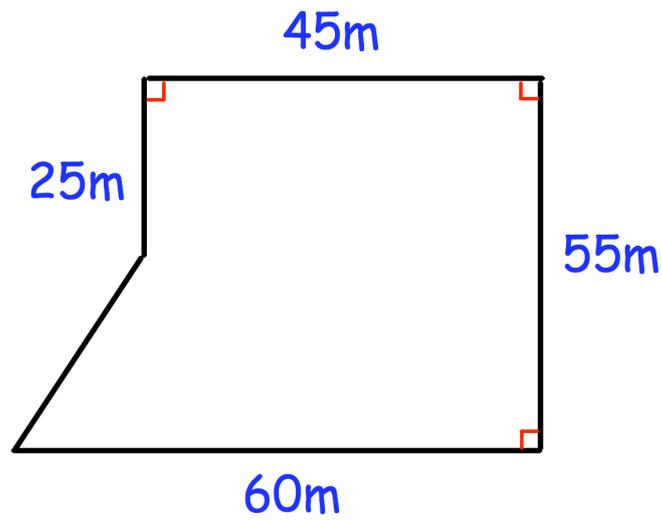
10. Shown below is a rectangular garden.  
There is a flowerbed in the shape of a trapezium.



Work out the percentage of the garden that the flowerbed covers.

.....%  
(5)

11. Walter would like to plant a crop in the field below.

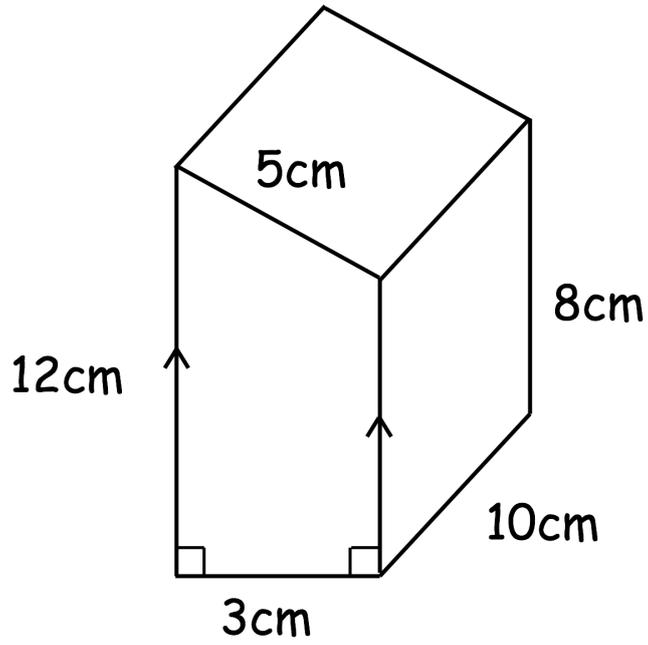


Each 8kg bag of seed costs £56  
1kg of seed covers an area of  $50\text{m}^2$

Walter has £380 to spend on the seed for the crop.  
Does Walter have enough money to cover the entire field?

.....  
(5)

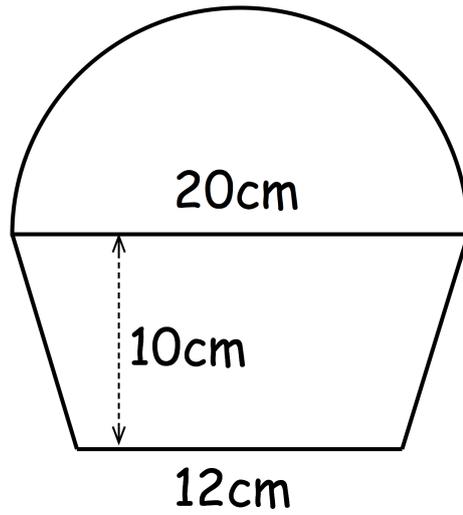
12. Shown is a cardboard box, that is a prism.



Calculate the surface area of the box.

.....cm<sup>2</sup>  
(5)

13. A design is made using a semi-circle and a trapezium.



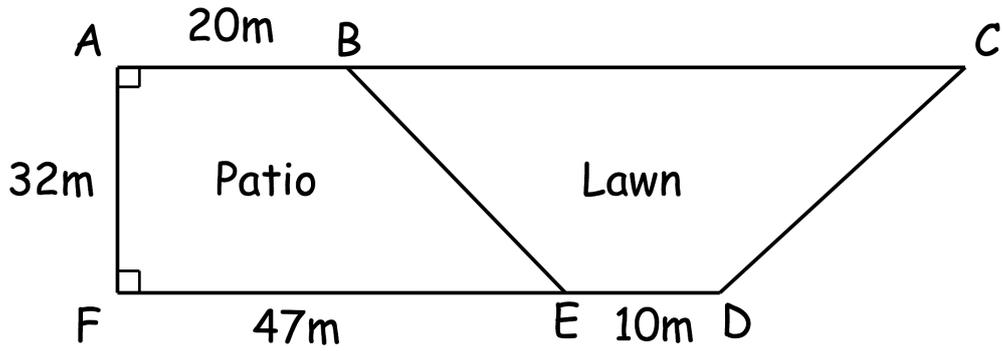
Find the area of the design.

.....cm<sup>2</sup>  
(5)

14. A garden ACDF is a trapezium.



The garden is divided in two sections, a patio, ABEF and a lawn, BCDE.

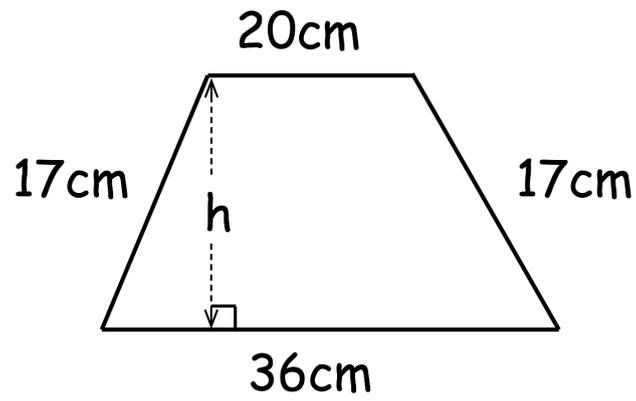


Given that the area of the patio : the area of the lawn = 4 : 5

Find the length of BC

.....m  
(6)

15. A trapezium is drawn below.



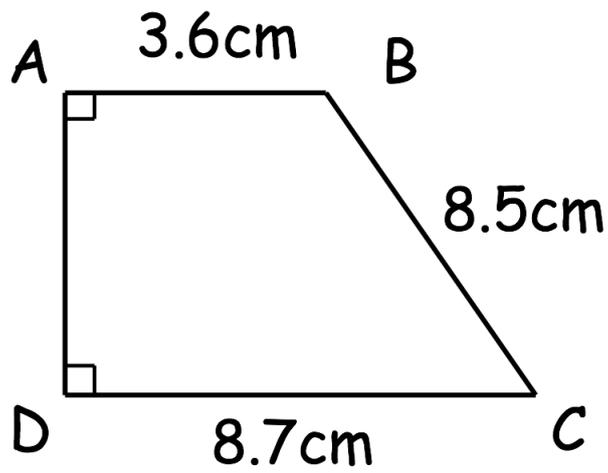
(a) Use Pythagoras' Theorem to show that  $h = 15\text{cm}$

(3)

(b) Find the area of the trapezium

..... $\text{cm}^2$   
(2)

16. Shown below is a trapezium.



Find the area of the trapezium.

.....cm<sup>2</sup>  
(5)