

Examples



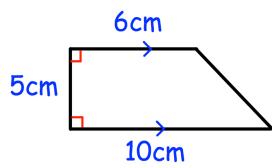
Workout

Click here

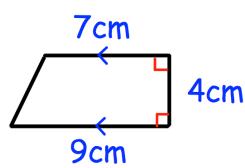
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Question 1: Find the area of each trapezium.

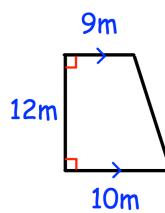
(a)



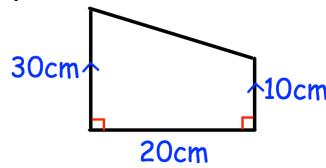
(b)



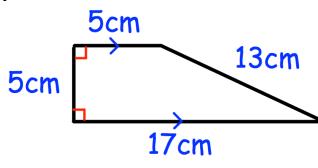
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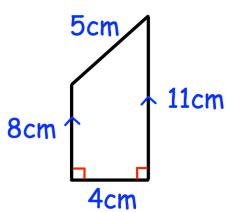
(d)



(e)

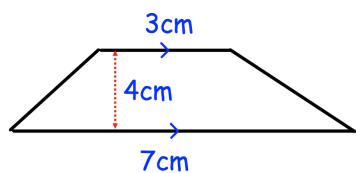


(f)

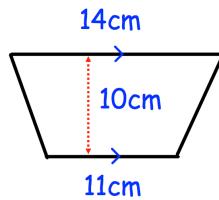


Question 2: Find the area of each trapezium.

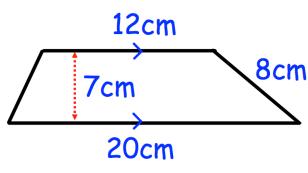
(a)



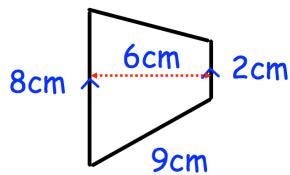
(b)



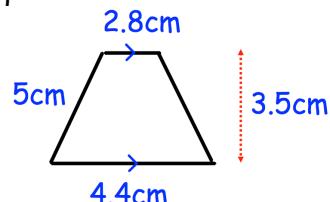
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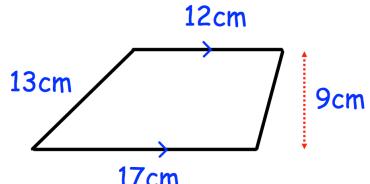
(d)



(e)



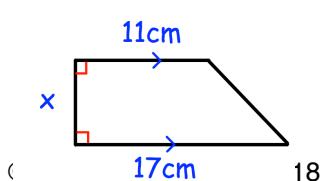
(f)



Question 3: Find x for each trapezium.

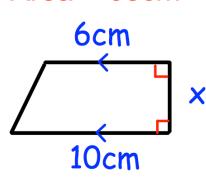
(a)

$$\text{Area} = 70\text{cm}^2$$



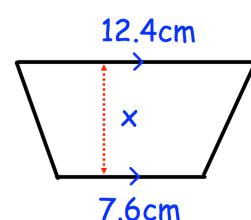
(b)

$$\text{Area} = 68\text{cm}^2$$



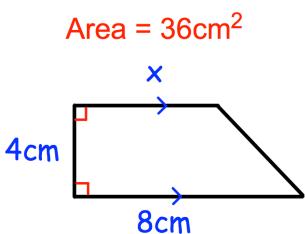
(c)

$$\text{Area} = 115\text{cm}^2$$

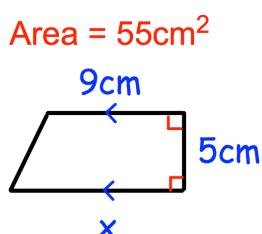


Question 4: Find x for each trapezium.

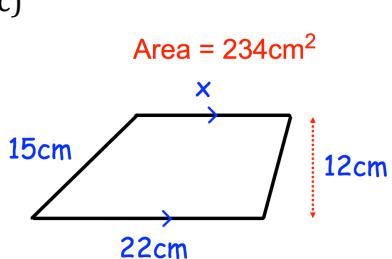
(a)



(b)



(c)



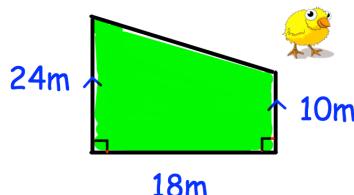
Apply

Question 1: Sketch five different trapezia with an area of 80cm^2

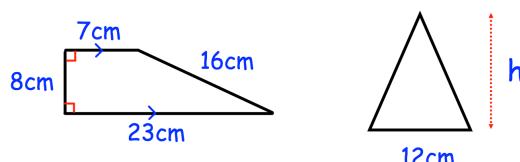
Question 2: Mr Taylor keeps chickens in the field shown.

Each chicken needs 3m^2 .

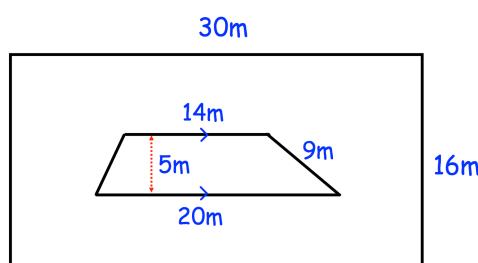
What is the maximum number of chickens he can keep in the field?



Question 3: The trapezium and the triangle have the same area.
 Calculate the height of the triangle.



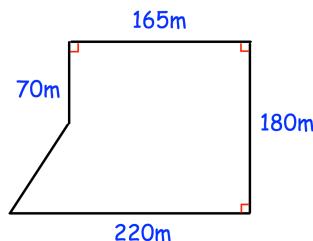
Question 4: Shown is a rectangular garden.
 There is a flowerbed in the shape of a trapezium.
 What percentage of the garden does the flowerbed cover?



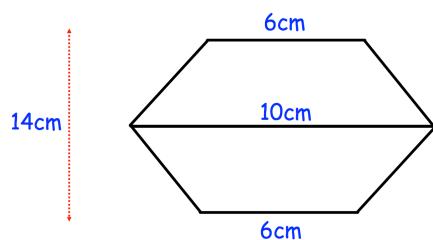
Area of a Trapezium

Video 48 on Corbettmaths

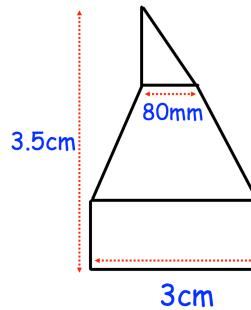
Question 5: Farmer Richards owns this field.
The crop he plants earns him £7 for each square metre
How much money does he earn in total?



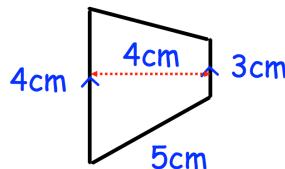
Question 6: A badge is made by joining two congruent trapezia.
Find the area of the badge.



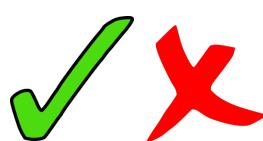
Question 7: A shape has been made from joining a rectangle, trapezium and triangle.
The height of the shape is 3.5cm.
The ratio of the height of the rectangle to the height of the trapezium to the height of the triangle is 2:3:2.
Calculate the area of the shape.



Question 8: The trapezium below is enlarged by scale factor 3.
(a) Work out the area of the enlarged trapezium.
(b) How many times larger is the area of the enlarged triangle than the trapezium below?



Answers



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