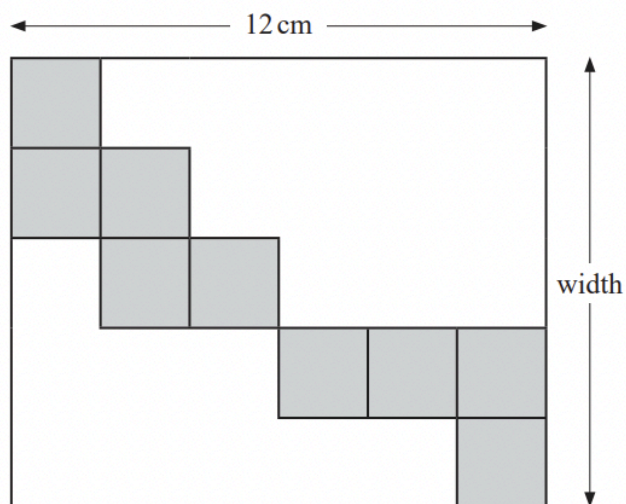


Q1 June 2019

13 The diagram shows nine identical squares inside a rectangle.



The length of the rectangle is 12 cm.

Work out the width of the rectangle.

.....cm

(Total for Question 13 is 3 marks)

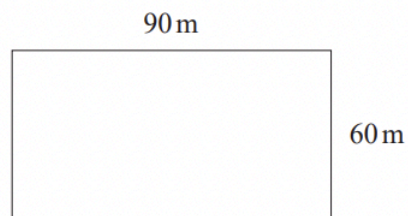
Q2 June 2019

15 A garden is in the shape of a rectangle 90 m by 60 m.

Flowers are grown in 40% of the garden.

The rest of the garden is grass.

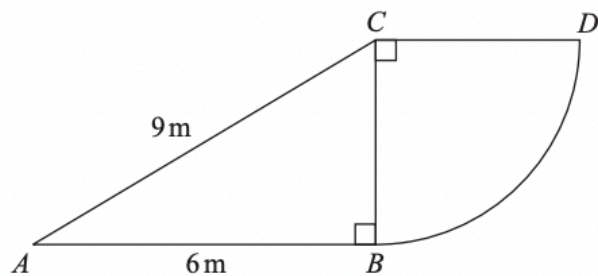
Work out the area of the garden that is grass.



.....m²

(Total for Question 15 is 4 marks)

27 The diagram shows a right-angled triangle and a quarter circle.



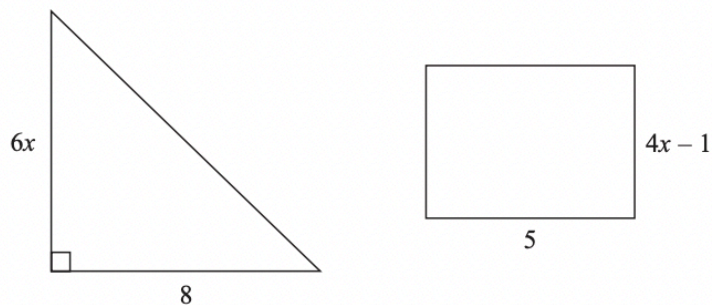
The right-angled triangle ABC has angle $ABC = 90^\circ$
The quarter circle has centre C and radius CB .

Work out the area of the quarter circle.
Give your answer correct to 3 significant figures.
You must show all your working.

..... m^2

(Total for Question 27 is 4 marks)

Q4 June 2023

24 Here is a triangle and a rectangle.

All measurements are in centimetres.

The area of the triangle is 10 cm^2 greater than the area of the rectangle.

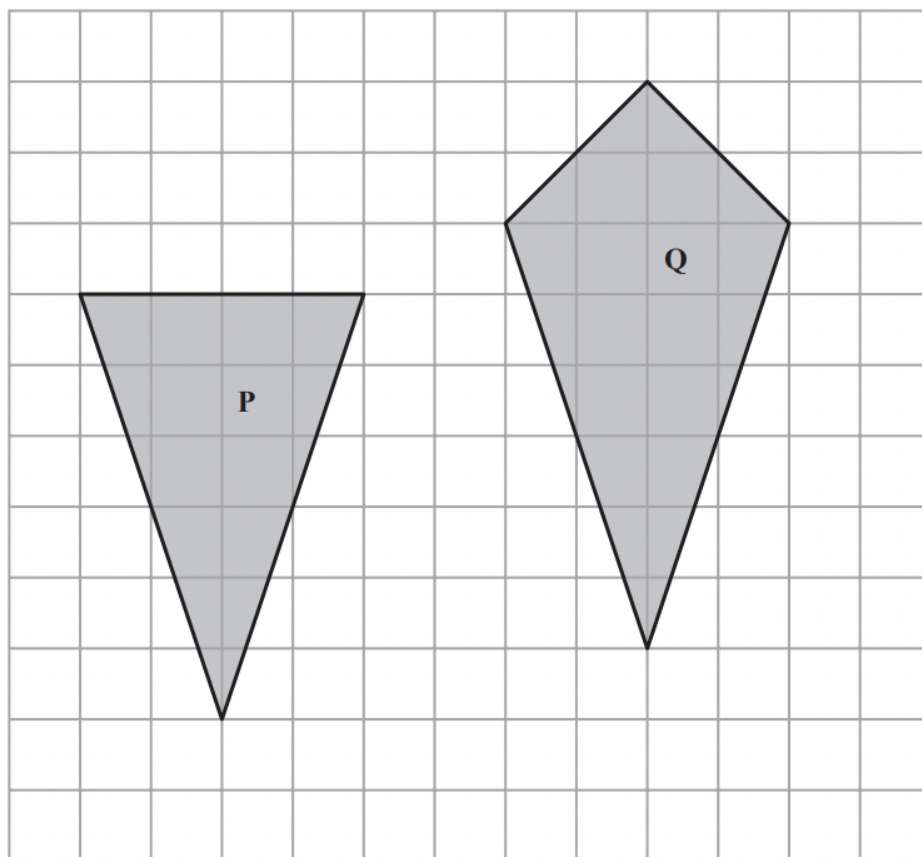
Work out the value of x .

$x = \dots\dots\dots$

(Total for Question 24 is 4 marks)

Q5 Nov 2017

10 The diagram shows two shapes drawn on a centimetre grid.



(a) Find the area of shape **P**.

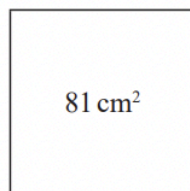
.....
(2)

(b) Write down the mathematical name of quadrilateral **Q**.

.....
(1)

(Total for Question 10 is 3 marks)

13 A square has an area of 81 cm^2

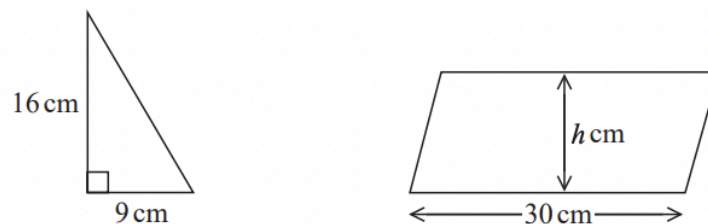


(a) Find the perimeter of the square.

.....cm

(2)

The diagram shows a right-angled triangle and a parallelogram.



The area of the parallelogram is 5 times the area of the triangle.

The perpendicular height of the parallelogram is $h \text{ cm}$.

(b) Find the value of h .

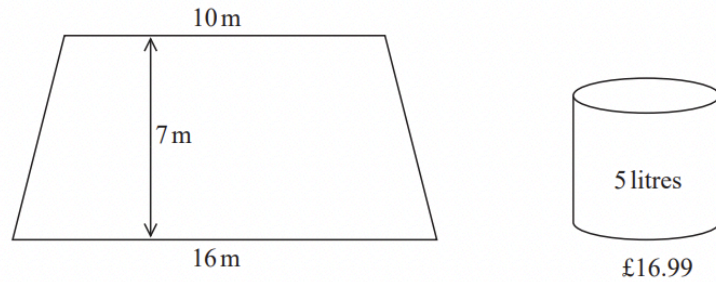
$h =$

(3)

(Total for Question 13 is 5 marks)

Q7 Nov 2018

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



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 m^2

John has £160 to spend on paint.

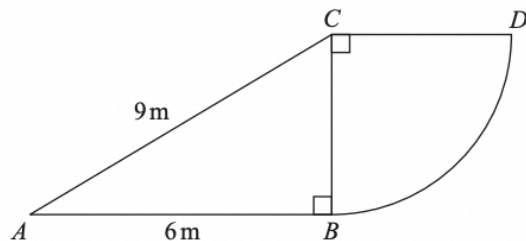
Has John got enough money to buy all the paint he needs?

You must show how you get your answer.

(Total for Question 24 is 5 marks)

Q8 Nov 2020

27 The diagram shows a right-angled triangle and a quarter circle.



The right-angled triangle ABC has angle $ABC = 90^\circ$
The quarter circle has centre C and radius CB .

Work out the area of the quarter circle.
Give your answer correct to 3 significant figures.
You must show all your working.

..... m^2

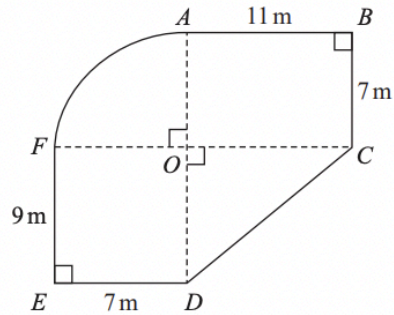
(Total for Question 27 is 4 marks)

21 The diagram shows a plan of Jason's garden.

$ABCO$ and $DEFO$ are rectangles.

CDO is a right-angled triangle.

AFO is a sector of a circle with centre O and angle $AOF = 90^\circ$



Jason is going to cover his garden with grass seed.

Each bag of grass seed covers 14 m^2 of garden.

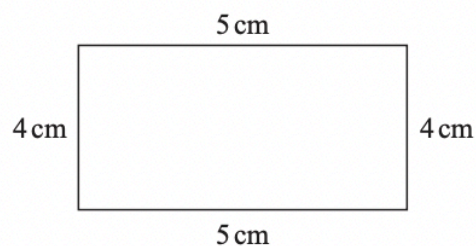
Each bag of grass seed costs £10.95

Work out how much it will cost Jason to buy all the bags of grass seed he needs.

£.....

(Total for Question 21 is 5 marks)

13 Milo is trying to find the area of this rectangle.



He writes,

“The area is 400 cm^2 because $5 \times 4 \times 5 \times 4 = 400$ ”

(a) Explain what is wrong with Milo’s method.

(1)

Anya works out the area of a shape.

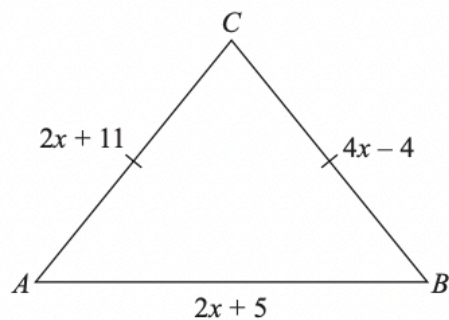
Her answer is 86 cm.

(b) Explain why her answer cannot be fully correct.

(1)

(Total for Question 13 is 2 marks)

26 The diagram shows triangle ABC .



In the diagram, all measurements are in centimetres.

$$AC = BC$$

The perimeter of the triangle is 72 cm.

Work out the area of the triangle.

..... cm^2

(Total for Question 26 is 5 marks)