Name:

Exam Style Questions

Area: Compound Shapes

Corbettmaths

Equipment needed: Pen, Calculator

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

Videos 41, 42

Answers and Video Solutions

1.

Not to scale

9cm

3cm

3cm

8cm
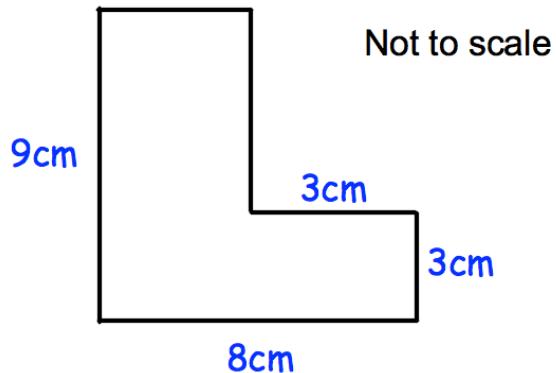
Calculate the area of the shape.

.........................cm²

(3)

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2.   Shown is a compound shape.

10cm

4cm

13cm

Not to scale

2cm
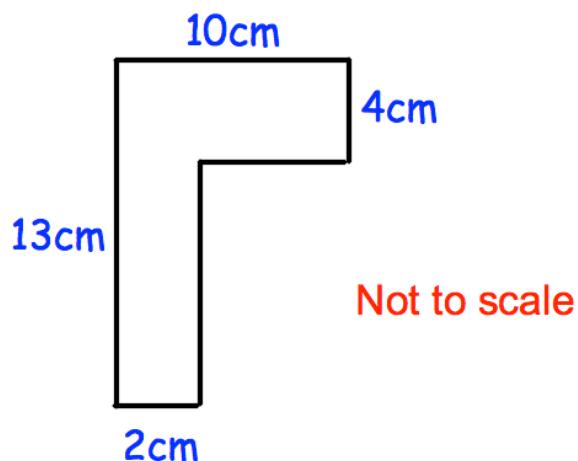
Calculate the area of the shape.

.........................cm²

(3)

3.

4cm
3cm
4cm
5cm
5cm
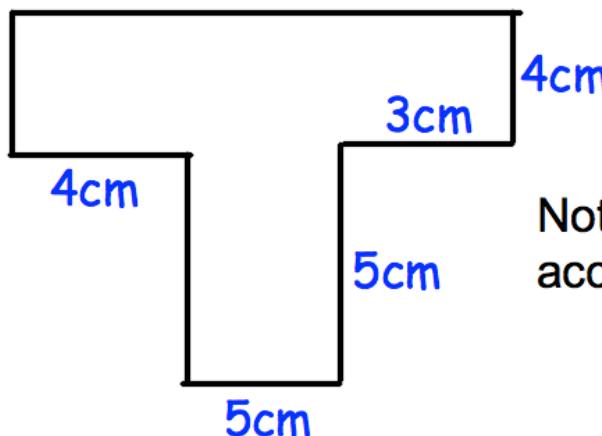
Not drawn
accurately

Calculate the area of the shape.

..........................cm²

(3)

4.

7cm
x
4cm
10cm
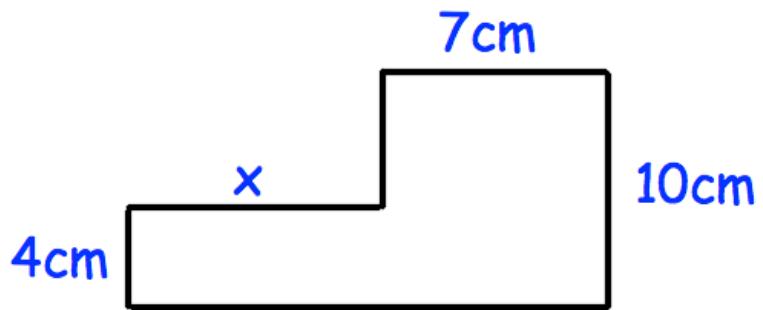
The area of the compound shape is 106cm².
Work out the size of x.

..........................cm

(3)

5. Connor is painting the front of his house.
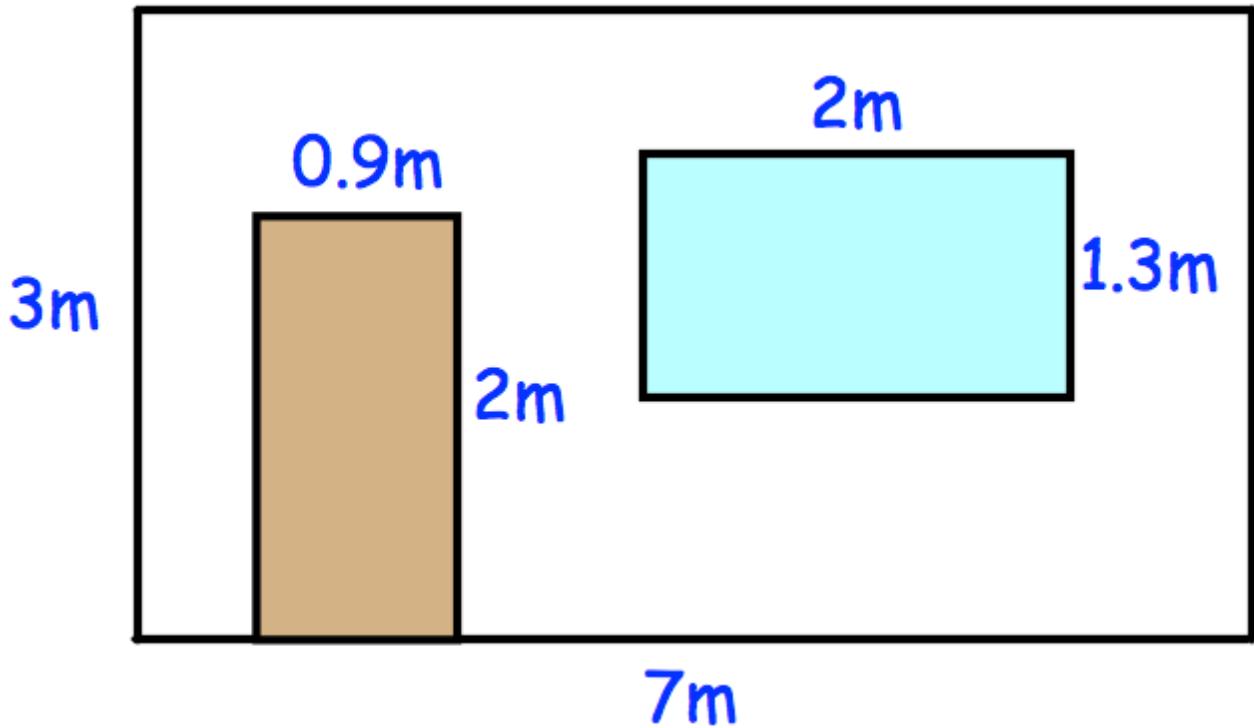
The tin of paint he has can cover 16m².

Will he have enough paint?
You **must** show your workings.

...

....

....

(4)

6.

5cm

8cm

6cm
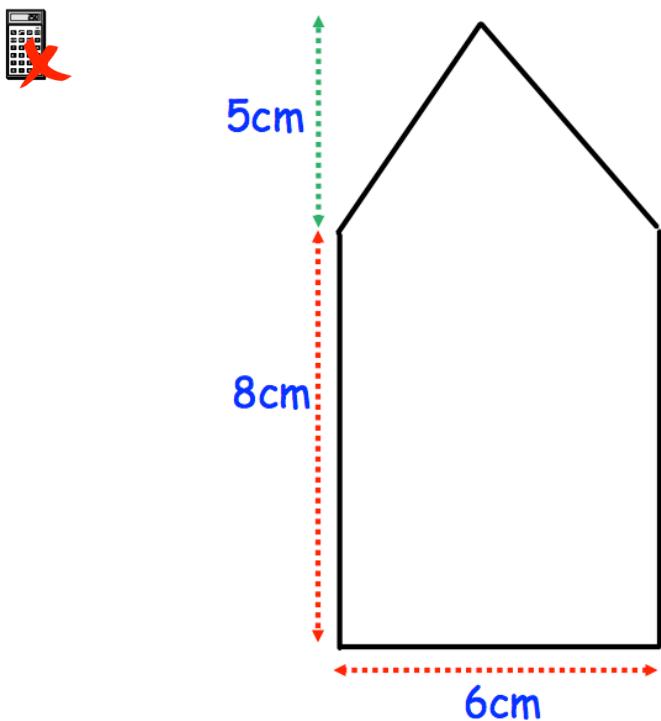
Calculate the area of the shape above.

.........................cm²

(3)

7. The shape below is made from five identical squares.

y
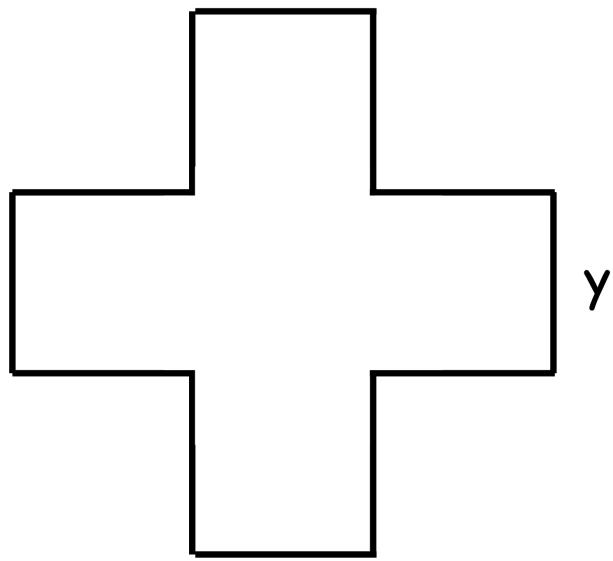
The area of the shape is 180cm²

Work out the length of side y

........................cm

(3)

8.

0.8m

Not drawn
to scale

2.1m

1.8m
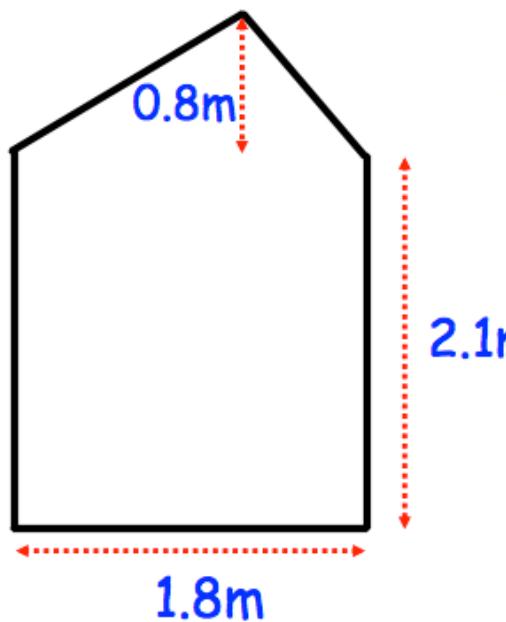
The diagram represents the side view of a shed with a sloping roof.
Calculate the area of the side view of the shed.
Give your answer to an appropriate degree of accuracy.

.........................m²

(3)

9.   Shown is the plan of a small field.
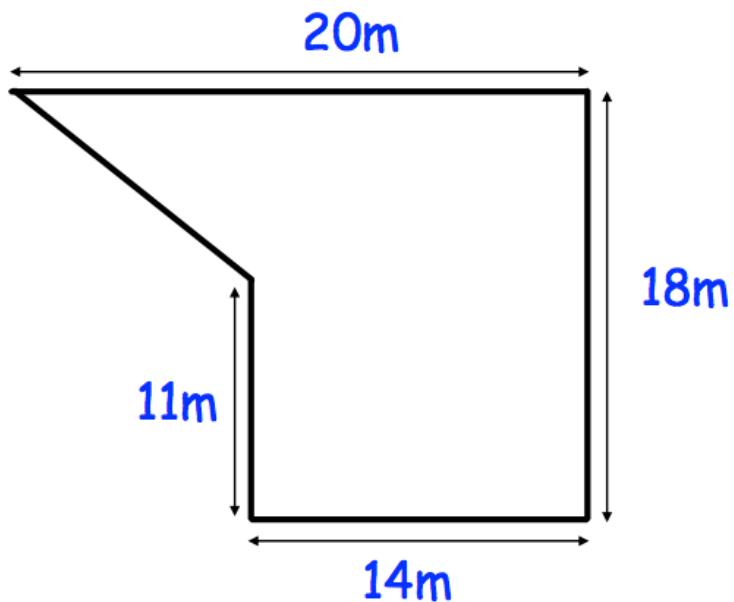
Thomas is going to keep some chickens in the field.
Each chicken needs 5m²

Work out the greatest number of chickens Thomas can keep in the field.

....

(5)

10. Bea makes a logo for a club in school.

6cm

6cm

12cm

15cm
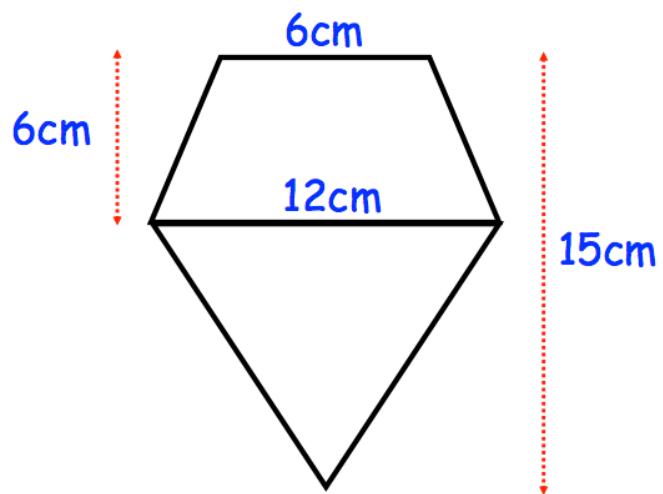
Work out the area of the logo.

.........................cm²

(4)

11. The diagram shows a rectangle with a circle cut out.

Not drawn to scale

20cm

8cm
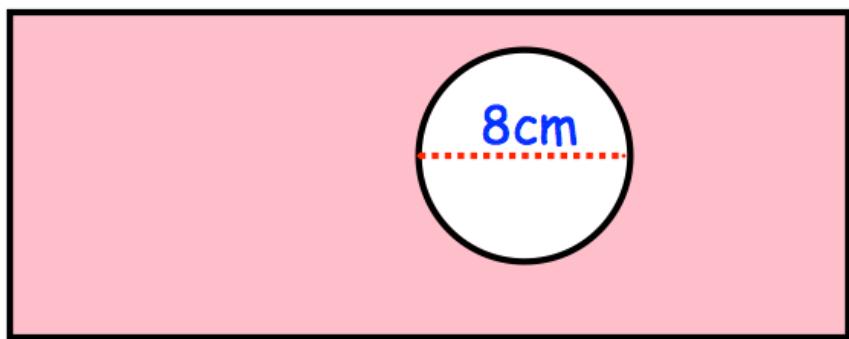
11cm

The rectangle has length 20cm and width 11cm.
The circle has diameter 8cm.

Work out the shaded area.
Give your answer correct to 2 decimal places.

.........................cm²

**(4)**

12. Shown is a cross-section of a river.

Not drawn
to scale

2.1m

4.5m

2m

4m

10m
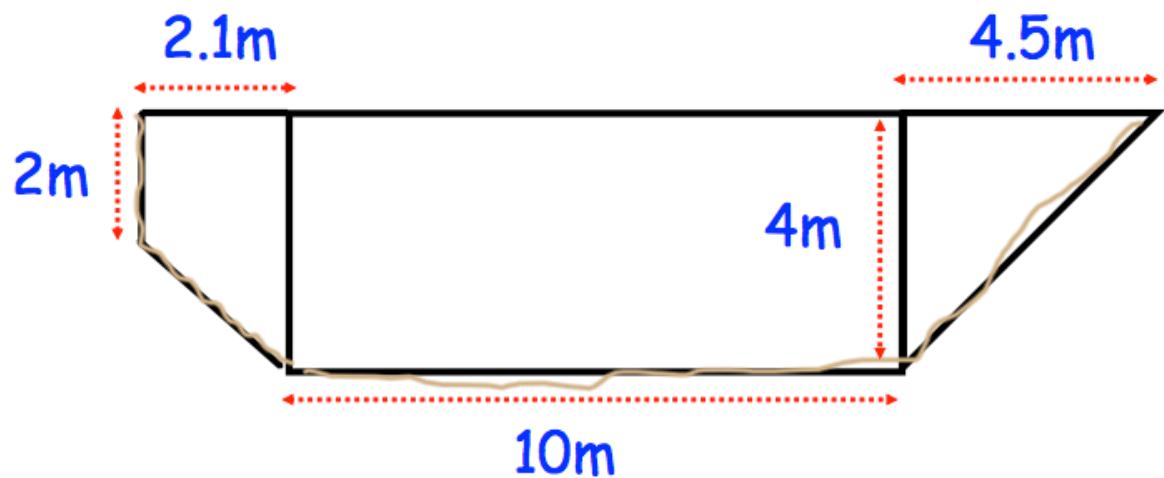
Calculate an estimate of the area of the cross section by considering the trapezium, rectangle and triangle.

...........................m²

(6)

13. Shown below is a compound shape made from a rectangle and semi-circle.

15cm

8cm
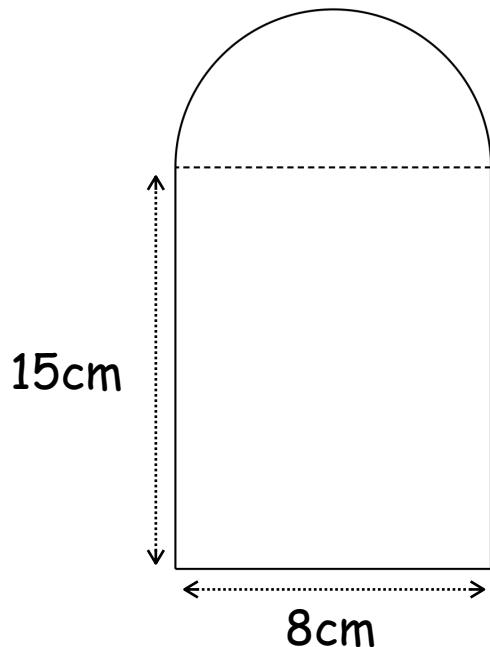
Calculate the area of the shape.

..........................cm²

(3)

14. Shown is a compound shape.
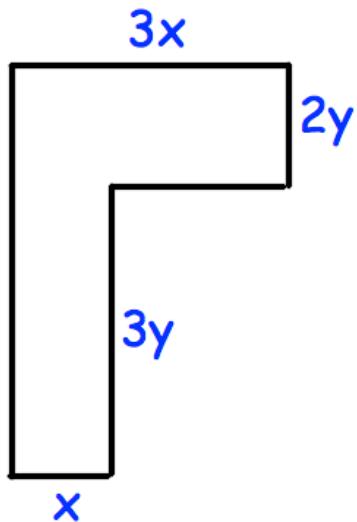
All measurements are in centimetres.
Find an expression for the area of the L shape.

...........................cm²

(3)

15. A garden ACDF is a trapezium.
The garden is divided in two sections:

A square area of decking, ABEF and
A section of grass, BCDE.
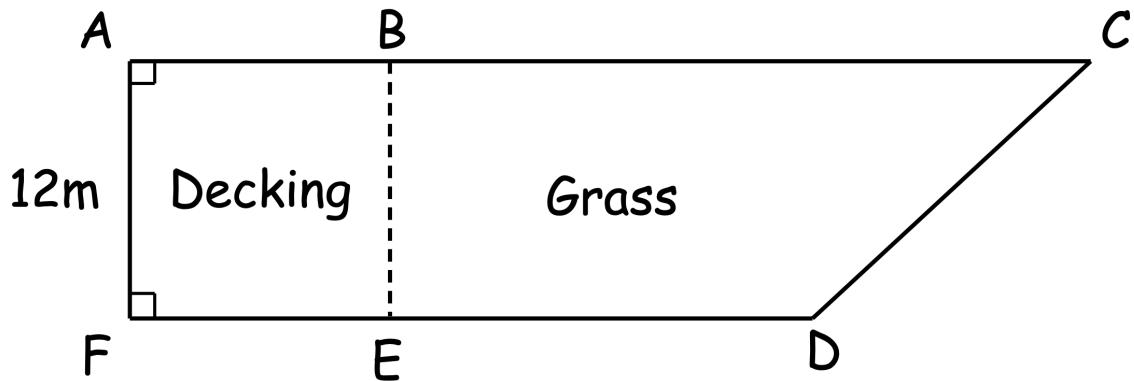
AC = 46m

FE : ED = 2 : 3

Find the area of the garden, ACDF.

.........................m²

(5)