Name:

# **Exam Style Questions**



# Area: Compound Shapes Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

#### Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Don't spend too long on one question.
- 3. Attempt every question.
- 4. Check your answers seem right.
- 5. Always show your workings

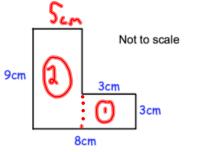
Revision for this topic

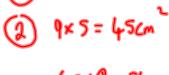
www.corbettmaths.com/contents

Video 41 Video 42







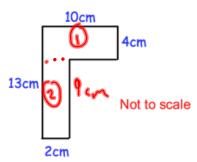


Calculate the area of the shape.

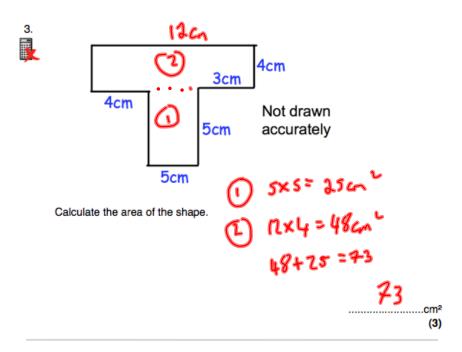


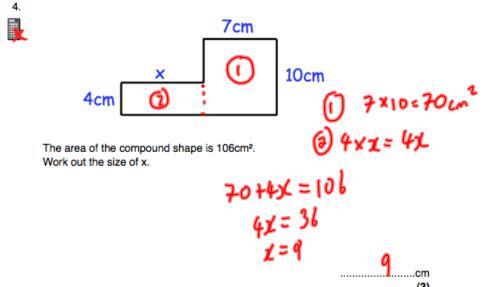
2. Shown is an L shape.





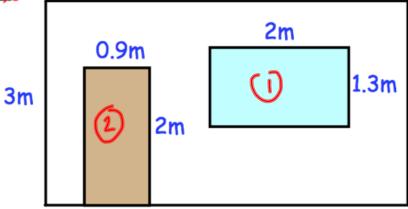
Calculate the area of the shape.





#### 5. Connor is painting the front of his house.





7m

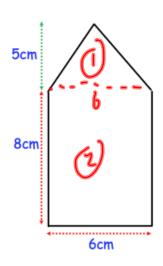
The tin of paint he has can cover 16m2.

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

WW: 3x7= 2

No , he will need more point as he needs to point 16.6 m2 and has evangle point to cover only 16.02.

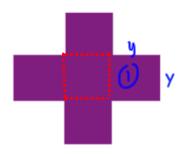




Calculate the area of the shape above.

63 .....cm²





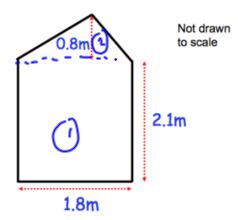
The area of the shape is 180cm<sup>2</sup>.

Work out the length of side y.

Area Sy 2 = 180

y = 6





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.

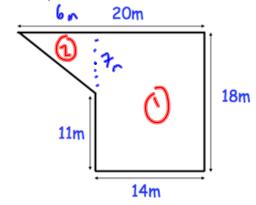
or answer to an appropriate degree of accuracy.

(i) 
$$2 \cdot 1 \times 1 \cdot 8 = 3 \cdot 78 \text{ m}^{2}$$

(2)  $4 \times 1 \cdot 8 \times 0 \cdot 8 = 0 \cdot 77 \text{ m}^{2}$ 
 $3 \cdot 78 + 0 \cdot 72 = 4 \cdot 5$ 

# 9. Shown is the plan of a small field.





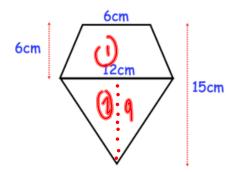
Thomas is going to keep some chickens in the field. Each chicken needs 5m².

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

**5**4

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





Work out the area of the logo.

The diagram shows a rectangle with a circle cut out.



Not drawn to scale

### 20cm



The rectangle has length 20cm and width 11cm.

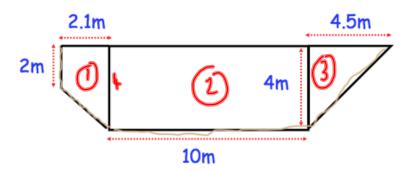
The circle has diameter 8cm.

Work out the shaded area.

Give your answer correct to 2 decimal places.

(i) 
$$20 \times 11 = 320 \text{ cm}^2$$
  
(i)  $11 \times 4^2 = 16 \text{ cm}^2 = 50.265...$   
 $169.734...$ 

Not drawn to scale



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

apezium, rectangle and triangle.

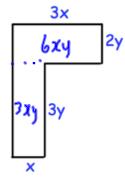
(2) 
$$4 \times 10 = 40^{3}$$

(1)  $4 (2+4) \times 2 \cdot 1 = 6 \cdot 3^{3}$ 

(3)  $4 \times 4 \times 4 \cdot 5 = 9^{3}$ 

13. Shown is an L shape.





All measurements are in centimetres. Find an expression for the area of the L shape.