

Name: \_\_\_\_\_

Exam Style Questions



Area: Rectangles

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

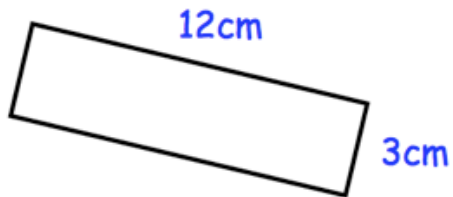
Revision for this topic

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

Video 45



1. The diagram shows a rectangle.



Work out the area.  
Include units.

$$12 \times 3 = 36$$

$$\underline{36 \text{ cm}^2}$$

(3)

2. Shown below is a rectangle.

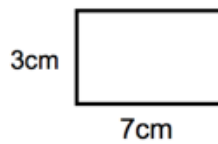


Diagram not  
drawn accurately

Work out the area.

$$3 \times 7 = 21$$

$$\underline{21} \text{ cm}^2$$

(2)

3.



The rectangle has length 4.5cm and width 2.8cm.

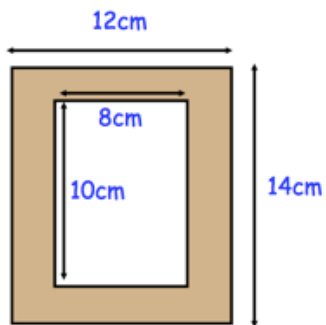
Work out the area.

$$4.5 \times 2.8$$

$$\dots\dots\dots 12.6 \text{ cm}^2$$

(2)

4. Shown below is a wooden picture frame.



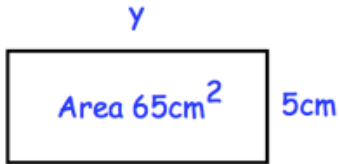
Work out the shaded area.

$$12 \times 14 = 168$$
$$10 \times 8 = 80$$
$$168 - 80 =$$

$$\dots\dots\dots 88 \text{ cm}^2$$

(3)

5. The rectangle below has an area of  $65\text{cm}^2$ .

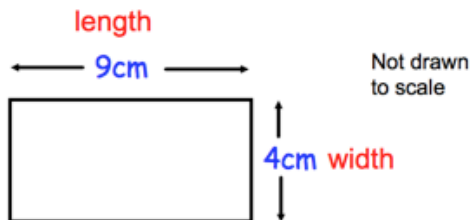


Work out the size of  $y$ .

$$65 \div 5 = 13$$

.....13.....cm  
(2)

6. The rectangle below has an area of  $36\text{cm}^2$



The rectangle has length  $9\text{cm}$  and width  $4\text{cm}$ .

Write down the length and width of **two** other rectangles with area  $36\text{cm}^2$ .

Rectangle 1: length .....12.....cm width .....3.....cm

Rectangle 2: length .....36.....cm width .....1.....cm

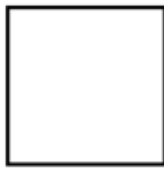
18  
72  
2  
0.5 etc (2)

7. Shown below is a square and a rectangle.



Square

Rectangle



8cm



16cm

The square and rectangle have the same area.

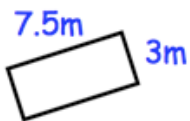
Find the y.

$$8 \times 8 = 64$$

$$64 \div 16 = 4$$

4 cm  
(3)

8. Work out the area of the rectangle below.

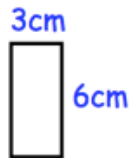


Include units.

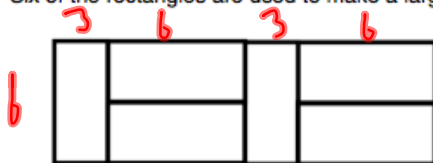
$$7.5 \times 3$$

22.5m<sup>2</sup>  
(3)

9. A rectangle is 3cm by 6cm.



Six of the rectangles are used to make a larger rectangle.

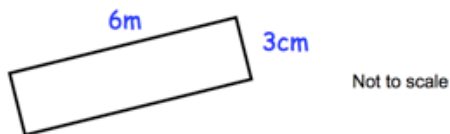


Work out the area of the larger rectangle.



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

10. The diagram shows a rectangle.

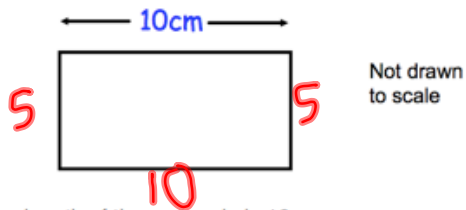


Work out the area.  
Give your answer in centimetres squared.

$$600 \times 3 = 1800$$

1800 .....cm<sup>2</sup>  
(3)

11. Here is a rectangle with perimeter 30cm.



The length of the rectangle is 10cm.

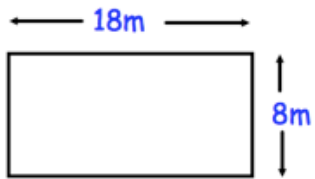
Work out the area of the rectangle.

$$\begin{aligned}10 + 10 &= 20 \\30 - 20 &= 10 \\10 \div 2 &= 5 \text{ cm}\end{aligned}$$

$$5 \times 10$$

$$\begin{array}{r}50 \\ \hline \dots\dots\dots \text{cm}^2 \\ (3)\end{array}$$

12.



Not drawn  
to scale

Mrs Jenkins is a chicken farmer.  
Her chicken pen is 18m long and 8m wide.  
Each chicken requires at least 3m<sup>2</sup>.

What is the maximum number of chickens Mrs Jenkins can keep?

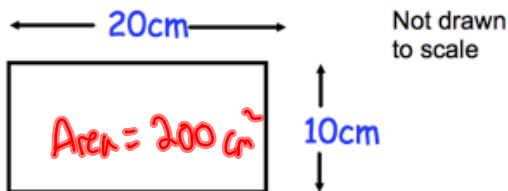
$$18 \times 8 = 144$$

$$144 \div 3 = 48$$

48  
.....  
(4)



13. Shown below is a rectangle with length 20cm and width 10cm.



The length of the rectangle is increased by 20%.  
The width of the rectangle is increased by 5%.

Find the percentage increase in the area of the rectangle.

length  $20 \div 10 = 2$       24cm  
 $2 \times 2 = 4$

width  $10 \div 10 = 1$       10.5  
 $1 \div 2 = 0.5$

$$24 \times 10.5 = 252 \text{ cm}^2$$

$$\frac{26}{\dots\dots\dots} \%$$

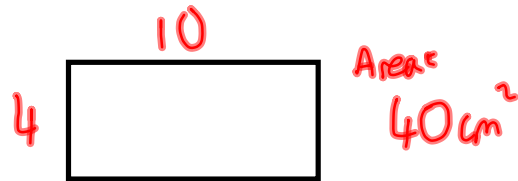
(3)

14. Rebecca draws a rectangle.  
Holly enlarges the rectangle by scale factor 2.



Rebecca states "the area will be twice as larger as the original rectangle."

Show Rebecca is incorrect.



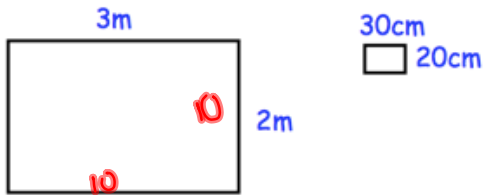
The area is actually 4 times larger

(4)

15. Mr Jones is tiling his kitchen floor.



The kitchen floor measures 3m by 2m.  
Each tile is 30cm by 20cm.



How many tiles does he need?

$$300 \div 30 = 10$$

$$200 \div 20 = 10$$

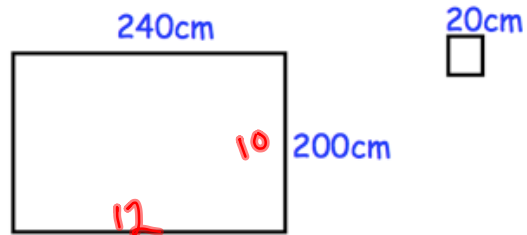
$$10 \times 10 = 100$$

.....  
(3)

16. Jessica is tiling her bathroom wall.



The wall is 240cm by 200cm.  
The tiles are squares with side length 20cm.



Each box contains 15 tiles and costs £8.75.

How much will it cost Jessica for the tiles?

$$240 \div 20 = 12$$

$$200 \div 20 = 10$$

$$12 \times 10 = 120$$

$$120 \div 15 = 8$$

$$8 \times 8.75 = 70$$

£ 70  
(5)