

Please read this part first then find your group's questions below ...

Area is just a way of describing the total amount of space that a shape takes up. You can find the area by counting the number of squares that fit inside a shape.

Examples

Find the area of each shape drawn on the centimetre square grids below.



There are six squares.

Area = 6 cm^2

Area has units of cm^2 (square centimetres). Don't forget to add them on at the end.



There are five whole squares and two half squares.

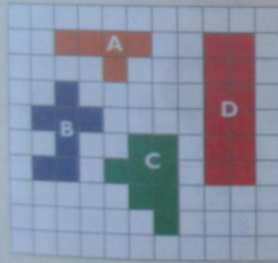
Area = $5 + \frac{1}{2} + \frac{1}{2} = 6 \text{ cm}^2$



Trapezium (also try Oblong when you have finished!)

Set A

Look at the shapes on the square grid below:



Which shape is made from:

- 1 7 squares?
- 2 8 squares?
- 3 What is the area of A?
- 4 What is the area of D?
- 5 Which two shapes have a total area of 17 squares?

Enzo has a centimetre square grid. He shades in squares to spell his name:

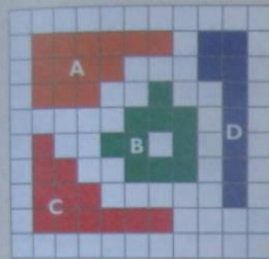


- 6 What is the area of the letter "E"?
- 7 What is the area of the letter "O"?
- 8 Is the area of "N" smaller, bigger or the same as the area of "Z"?

Oblong (also have a try at the Rhombus questions!)

Set B

Each square on the grid below measures 1 cm^2 .



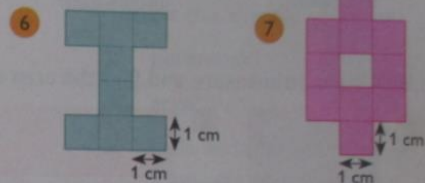
How much larger is the area of Shape A than Shape:

- 1 B?
- 2 C?
- 3 D?

On a centimetre square grid, draw a rectangle with:

- 4 the same area as Shape B.
- 5 the same area as Shape C.

How many centimetre squares can fit inside the following shapes?



- 8 A square with a width of 4 cm.
- 9 A square with a width of 9 cm.

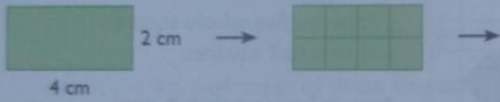
Rhombus 1

It would take a long time to count up the squares to find the area of a big rectangle. You can cheat though — you'll just need your multiplication skills...



Example

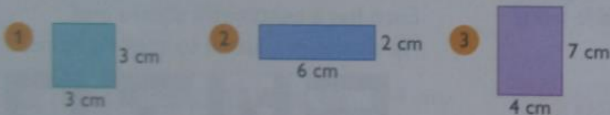
Work out the area of the rectangle below.



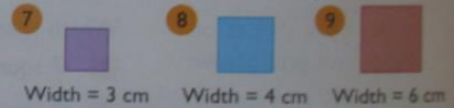
The rectangle is made from 2 rows of 4 squares. Area = $2 \times 4 = 8 \text{ cm}^2$

Set A

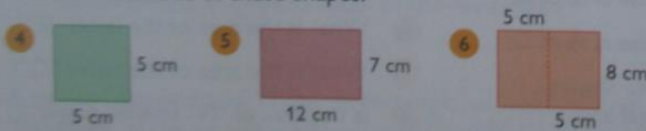
How many centimetre squares fit inside the shapes below?



What is the area of these squares?



Work out the area of these shapes:



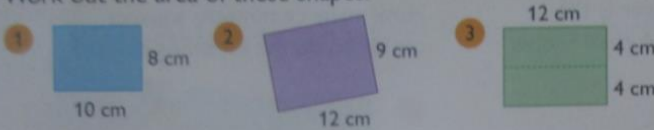
10 Copy and complete the table:

Length	Width	Rectangle area
5 cm	4 cm	20 cm^2
7 cm	2 cm	
9 cm	8 cm	

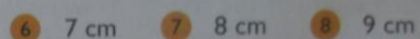
Rhombus 2

Set B

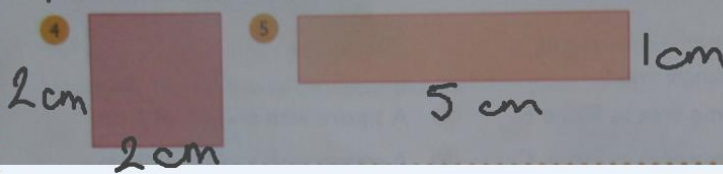
Work out the area of these shapes:



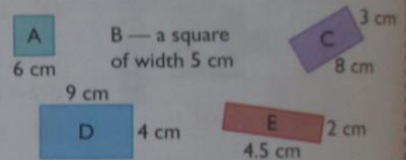
Calculate the area of a square of width:



Use a ruler to measure and find the area of these shapes:



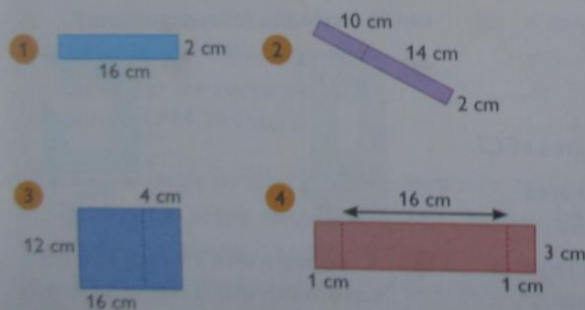
9 Which of the shapes below have the same area?



Extra challenge:

Set C

Work out the area of these shapes:



Aria has cut out some squares from card. Each square has a width of 5 cm.

Work out the area of:

- 5 a single square.
- 6 three squares in a row.
- 7 two rows of three squares.
- 8 four rows of two squares.
- 9 a larger square with a width of four squares.