

Aim

• I can calculate the area of rectangles and squares.

Success Criteria

• I can use multiplication to calculate area.

Oin

- I can multiply length by width to calculate area.
- I can record area in standard units (square centimetres and square metres).



Write a definition for 'area'.

It is useful to find the area when working out how much of something will be needed to cover a surface or when calculating how many or much of something will fit into a space.

0.

Oin





Write a definition for 'area'.



0.

0 in

Area is the amount of space enclosed by a boundary.



minim



Count the squares to find the area of these rectangles and squares. Order them from smallest to greatest area.

0 cm

Oin





The order goes C, E, B, A, D.

Ocm

Oin

111



We can calculate area by counting squares. This square has an area of 9 squares. Another way to calculate the area is to use multiplication.

Ocm

Oin



How could we use multiplication to calculate the area of this rectangle?

Ocm



How could we use multiplication to calculate the area of this rectangle?

Ocm



How could we use multiplication to calculate the area of this rectangle?

Ocm



Use multiplication to calculate the area of these shapes. Write a multiplication calculation to show how you calculated the area.

0 cm



Use multiplication to calculate the area of these shapes. Write a multiplication calculation to show how you calculated the area.

Ocm



Calculating Area in cm^2 and m^2



If we know the length and the width of a rectangle or square, we can calculate its area.

When we calculate an area in centimetres, we measure this in **square centimetres**. We can also write this as **cm**².

0.

Oin

This is because it describes how many Icm by Icm squares make up the area.





If we know the length and the width of a rectangle or square, we can calculate its area.

4cm × 5cm = 20 square centimetres

0.

Oin

We write this as 20 cm^2 .

What is the other multiplication we could do to find the area?

 $5 \text{ cm} \times 4 \text{ cm} = 20 \text{ cm}^2$

 $Area = 20 cm^2$



Calculating Area in cm^2 and m^2



Calculate the area of this shape.

Ocm

Oin





When we calculate an area in metres, we measure this in **square metres**.

We can also write this as **m**². This is because it describes how many Im by Im squares make up the area.

Ocm

Oin

Imagine that each square you see on the shape is a metre.

Calculate the area of this shape.



minim



When we calculate an area in metres, we measure this in square metres.

Ocm





Calculate the area of this shape.

Ocm





Calculate the area of this shape.

Ocm





Calculate the area of this shape.

0

Oin

M		9m	
	6M		E A



Calculate the area of this shape.

Ocm



Calculating Area

Now use your amazing area skills to complete these activities.

Ocm

Oin



unimim

Area of 24



On squared paper, draw as many rectangles with different measurements as you can think of that have an area of 24cm².

0 cm

Oin



minim

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