YEAR 8 • MEASUREMENT

Perimeter and Area of Rectangles

Calculate with rectangles and shapes made from rectangles.

Name _____ **Date** _____

Show your working and include units. Perimeter is the distance around a shape; area is the space inside it.

A. Rectangles

Find each requested measurement.

1 Calculate perimeter and area

A rectangle is 13 cm long and 8 cm wide. Find its perimeter and area.

Working

Perimeter _____

Area _____

2 Calculate perimeter and area

A rectangle is 7.5 m long and 3 m wide. Find its perimeter and area.

Working

Perimeter _____

Area _____

3 Use the perimeter

A rectangle has a perimeter of 54 cm and a length of 17 cm. Find its width and area.

Working

Width _____

Area _____

4 Use the area

A rectangle has an area of 72 cm² and a width of 8 cm. Find its length and perimeter.

Working

Length _____

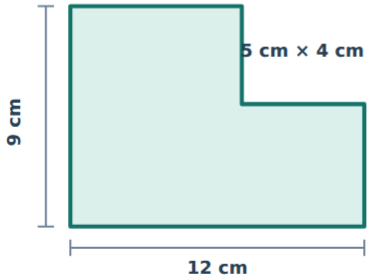
Perimeter _____

B. Composite shapes

Use the measurements shown and given.

5 L-shape

A 12 cm × 9 cm rectangle has a 5 cm × 4 cm rectangle removed from one corner. Find the perimeter and area of the remaining shape.

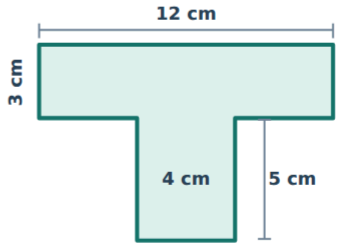


Perimeter _____

Area _____

6 T-shape

The T-shape is made from a 12 cm × 3 cm rectangle and a 4 cm × 5 cm rectangle, joined edge to edge as shown. Find its perimeter and area.



Perimeter _____

Area _____

C. Apply your skills

Remember to count every boundary.

7 Courtyard and pond

A courtyard is 14 m by 10 m. A 4 m by 3 m pond lies entirely inside it. Find the paved area and the total length of edging needed around the outside of the courtyard and around the pond.

Paved area _____ **Total edging** _____

Check that your answers have the correct units.