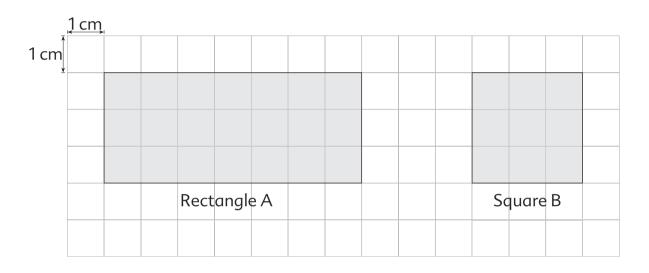


Friendly Notes

Rectangles and Squares

Area of a rectangle = length \times width



Each square in the grid has an area of 1 cm². Rectangle A has an area of 21 cm². Square B has an area of 9 cm².

Other units of area: Square inch (in²) Square meter (m²) Square kilometer (km²) Square foot (ft²) Square yard (yd²) Square mile (mi²) $1 \text{ cm}^2 = 1 \text{ square centimeter}$

Area of Rectangle A

 $= 7 \text{ cm} \times 3 \text{ cm}$

 $= 21 \text{ cm}^2$

Area of Rectangle B

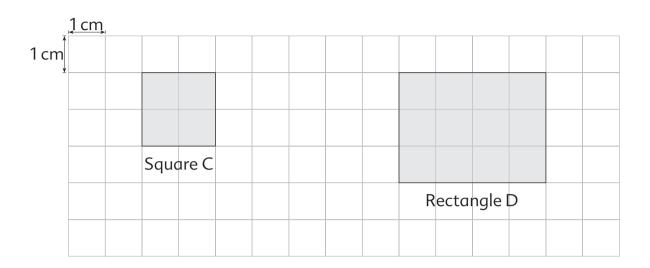
 $= 3 \text{ cm} \times 3 \text{ cm}$

 $= 9 cm^{2}$



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Perimeter of a rectangle = $2 \times (length + width)$



Perimeter of Square
$$C = 4 \times 2$$

= 8 cm

Perimeter of Rectangle D =
$$2 \times (4 + 3)$$

= 14 cm

1. Find the area and perimeter of the rectangle below.

Area of rectangle =
$$6 \text{ m} \times 3 \text{ m}$$

= 18 m^2

Perimeter of rectangle =
$$6 \text{ m} + 3 \text{ m} + 6 \text{ m} + 3 \text{ m}$$

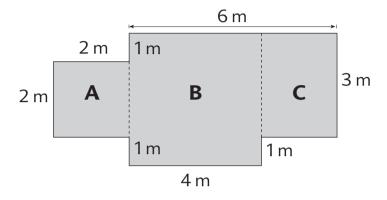
= 18 m

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A **composite figure** is made up of more than one shape.

Find the area and perimeter of the figure below.



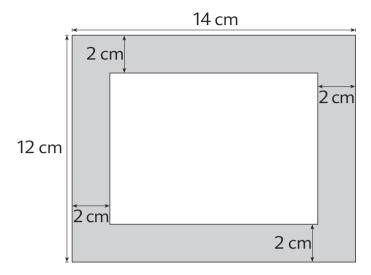
Area of figure = Area of A + Area of B + Area of C
=
$$(2 \times 2) \text{ m}^2 + (4 \times 4) \text{ m}^2 + (3 \times 2) \text{ m}^2$$

= $4 \text{ m}^2 + 16 \text{ m}^2 + 6 \text{ m}^2$
= 26 m^2

Perimeter of figure =
$$(6 + 3 + 2 + 1 + 4 + 1 + 2 + 2 + 2 + 1)$$
 m
= 24 m

(

2. Find the area of the shaded part of the figure.



Area of big rectangle =
$$14 \text{ cm} \times 12 \text{ cm}$$

= 168 cm^2

Area of small rectangle =
$$10 \text{ cm} \times 8 \text{ cm}$$

= 80 cm^2

$$14 - 4 = 10$$

$$12 - 4 = 8$$

Length of small rectangle is 10 cm. Width of small rectangle is 8 cm.

