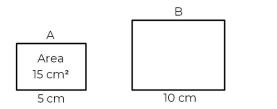
Mr Chan

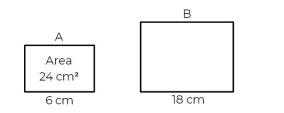


1. Rectangles A and B are similar in each part.

a) Calculate the area of shape B.

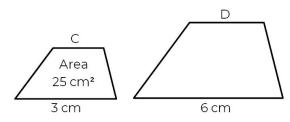


b) Calculate the area of shape B.



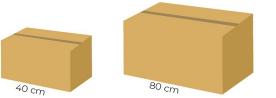
2. Shape D is similar to shape C.

Work out the area of shape D.



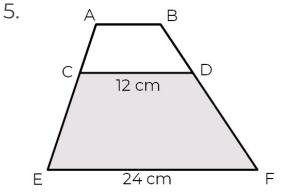
3. Two similar triangles have heights of
5 cm and 15 cm. The area of the
smaller triangle is 10 cm<sup>2</sup>.
Calculate the area of the larger
triangle.

4. Two boxes are mathematically similar.



The smaller box has a surface area of 6600 cm<sup>2</sup>

Alex says that the larger box will have twice the surface area 13,200 cm<sup>2</sup>. Show that Alex is wrong.

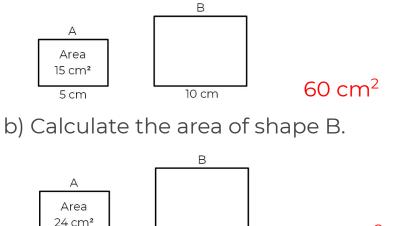


Trapezium ABCD has an area of 27 cm<sup>2</sup> Work out the area of trapezium CEFD.

# Answers

1. Rectangles A and B are similar in each part.

a) Calculate the area of shape B.



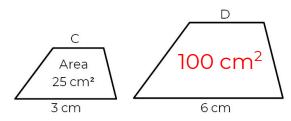
6 cm



 $216 \, \text{cm}^2$ 

2. Shape D is similar to shape C.

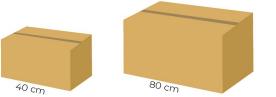
Work out the area of shape D.



3. Two similar triangles have heights of 5 cm and 15 cm. The area of the smaller triangle is  $10 \text{ cm}^2$ . Calculate the area of the larger triangle. 90 cm<sup>2</sup>

5.

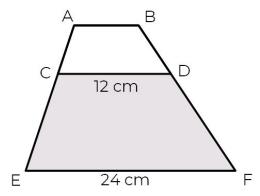
4. Two boxes are mathematically similar.



The smaller box has a surface area of 6600 cm<sup>2</sup>

Alex says that the larger box will have twice the surface area 13,200 cm<sup>2</sup>. Show that Alex is wrong.

Length SF = 2  $6600 \times 2^2 = 26,400 \text{ cm}^2$ 



Trapezium ABCD has an area of 27 cm<sup>2</sup> Work out the area of trapezium CEFD.

#### 108 cm<sup>2</sup>