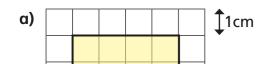
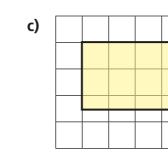


11cm

Area of rectangles and parallelograms

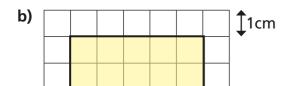
Use the centimetre squares to find the areas of the shapes.

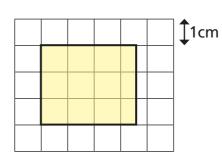




d)

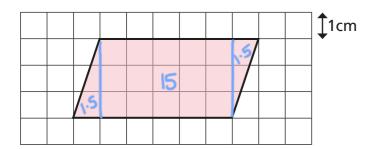
area =
$$12$$
 cm²





area =
$$10.5$$
 cm²

Show that the area of the parallelogram is 18 cm²

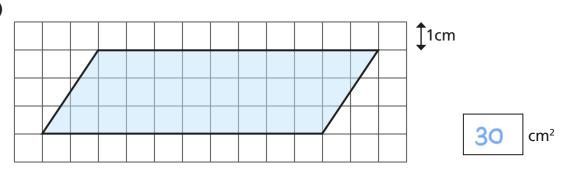


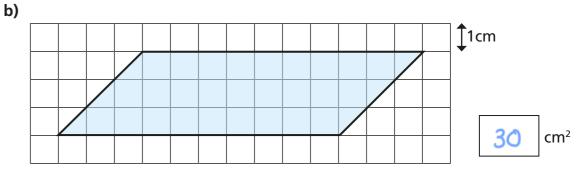




Work out the area of these parallelograms.

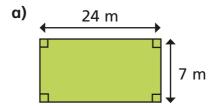
a)

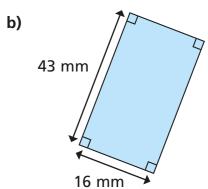




c) Discuss what is the same and what is different about the shapes and the answers to part a) and part b). How did you find the area?

Calculate the areas of the rectangles.





168 m2

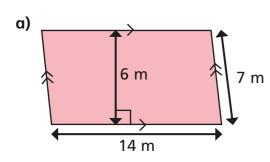
688 mm²

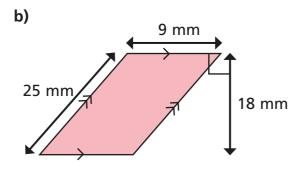
A rectangular garden has an area of 24 m²

Complete the table showing the possible lengths and widths.

Length	8 m	12 m	6m	10m	16 m	20m
Width	3m	2m	4 m	2.4 m	1.5m	120 cm

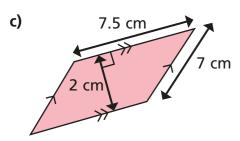
Work out the areas of the parallelograms.

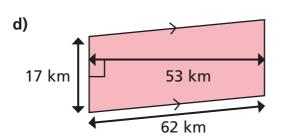




area =
$$84$$
 m²

area =
$$162$$
 mm²

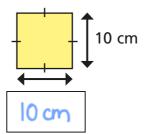


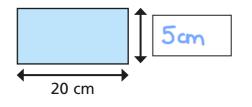


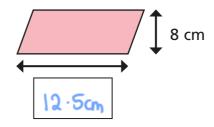
area =
$$15$$
 cm²

area =
$$\boxed{901}$$
 km²

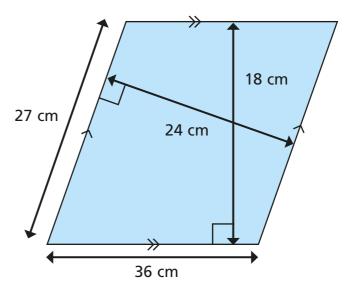
The square, rectangle and parallelogram have the same area. Find the missing lengths.







8 Write two different calculations to work out the area of the parallelogram.

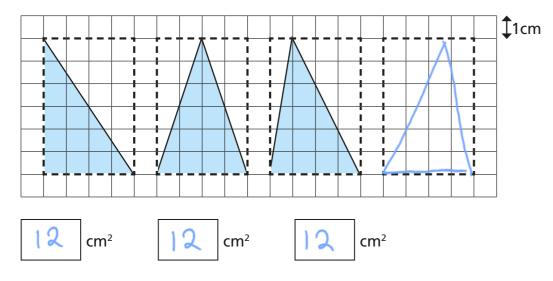




Area of triangles



a) Find the area of the three triangles.



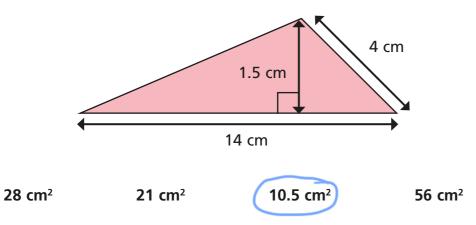
b) What do you notice? Explain why this happens.

Same area because the bases and heights are the same.

c) In the last rectangle, draw a different triangle with the same area.



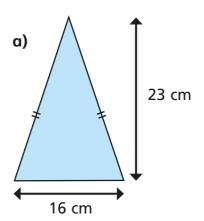
a) What is the area of the triangle? Circle your answer.

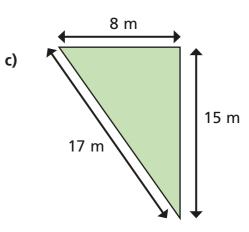


b) Discuss why somebody might choose one of the other options.

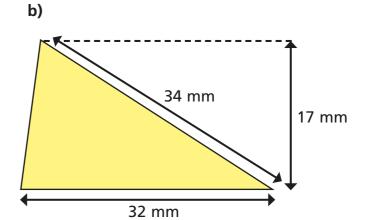


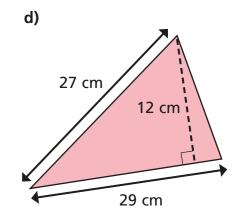
Work out the areas of the triangles.





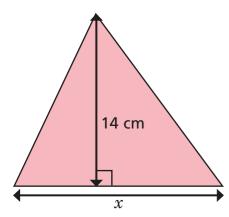
area =
$$60$$
 m^2





area =
$$272$$
 mm²

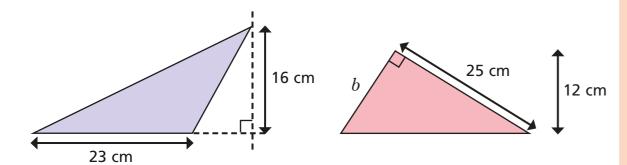
The area of the triangle is 70 cm² Find the length of the side marked x.



$$x = \bigcirc \bigcirc$$
 cm

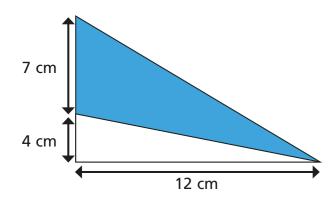
These triangles have the same area.

Work out the value of the length marked b.



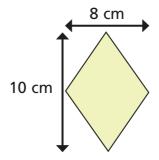
$$b = 14.72$$
 cm

What fraction of the large triangle is shaded?



711

7 A rhombus can be divided into two triangles.
Find the area of the rhombus.



area =
$$\frac{40}{\text{cm}^2}$$

8 How can you work out the area of the shaded triangle?
Talk about it with a partner.

