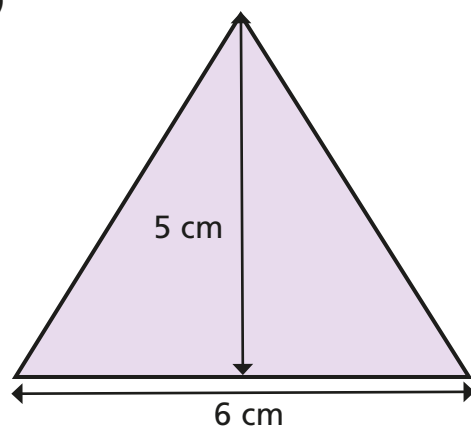


Calculate the area of triangles, rectangles and parallelograms

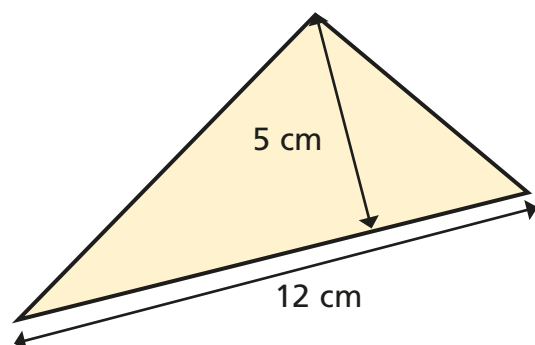
1 Find the areas of the triangles.

a)



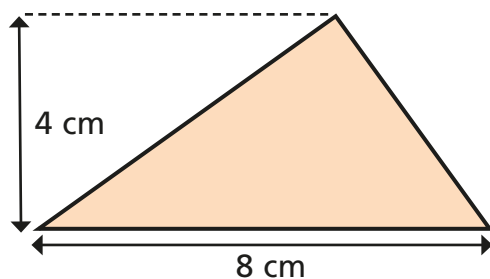
15 cm²

c)



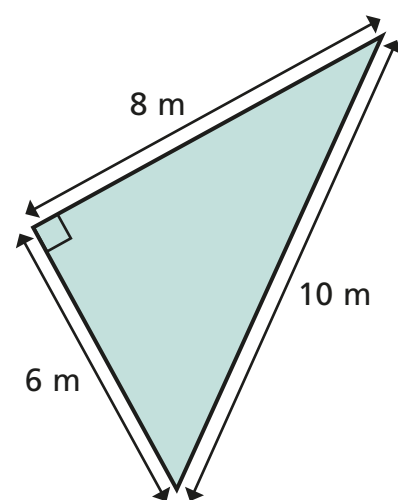
30 cm²

b)



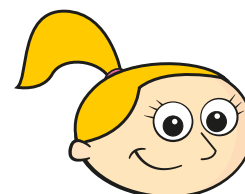
16 cm²

d)

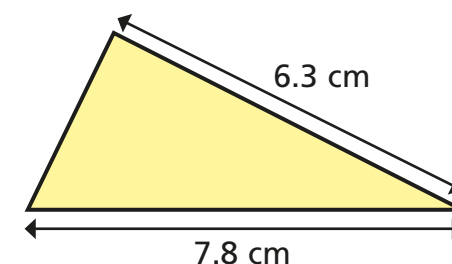


24 m²

2 Eva is working out the area of the triangle.



The base is 7.8 cm and the length of one side is 6.3 cm. I multiply and then divide by 2

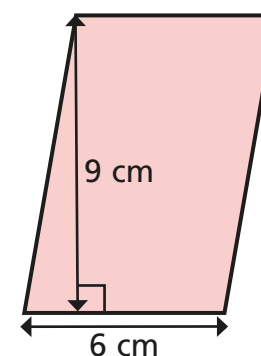


What mistake has Eva made?

6.3 cm isn't the perpendicular height. She doesn't have enough information to work out the area of the triangle.

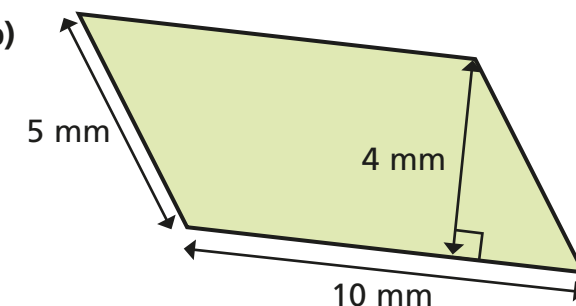
3 Find the areas of the parallelograms.

a)



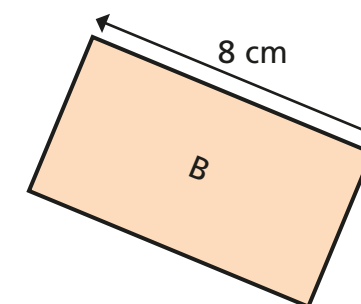
54 cm²

b)



40 mm²

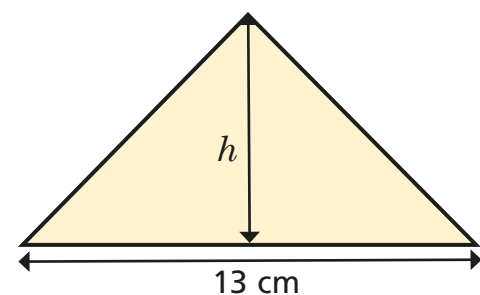
4 The two rectangles have the same area.



Work out the width of rectangle B.

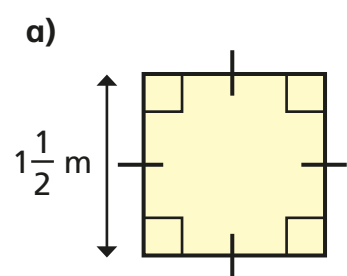
4.5 cm

- 5 The area of the triangle is 26 cm^2
What is its height?

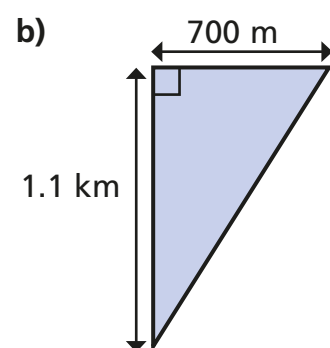


$$h = \boxed{4} \text{ cm}$$

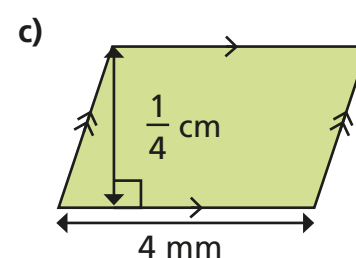
- 6 Work out the areas of the shapes.



$$\boxed{2.25 \text{ m}^2}$$

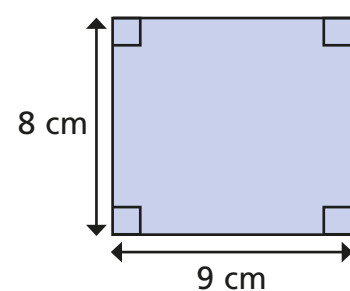
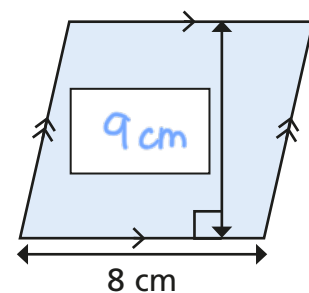
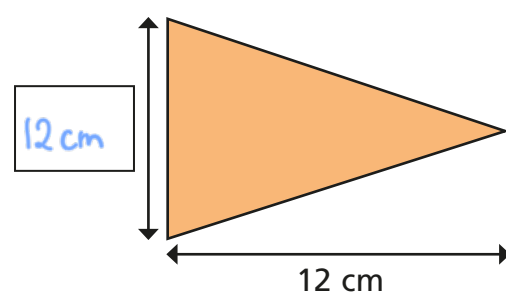


$$\boxed{385,000 \text{ m}^2}$$



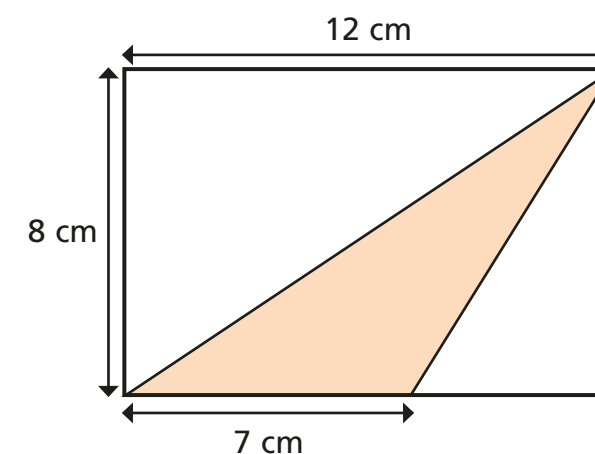
$$\boxed{10 \text{ mm}^2}$$

- 7 These three shapes all have the same area.



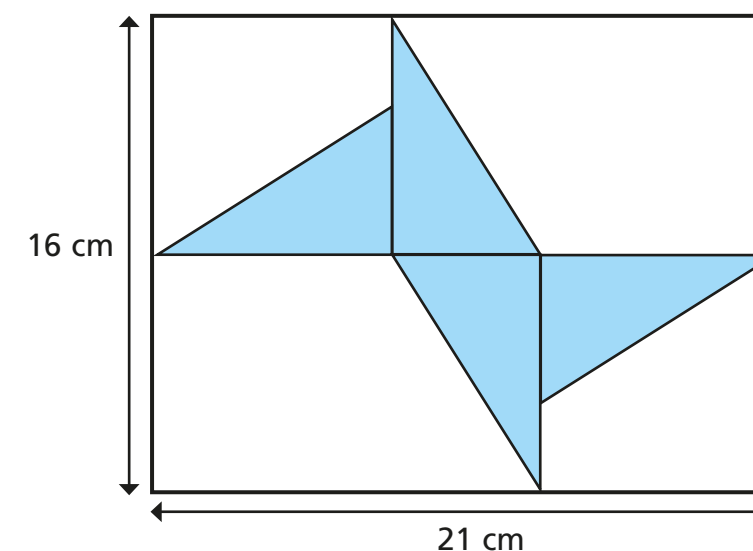
Find the missing values.

- 8 A rectangle is split into three triangles.
One of the triangles is shaded.
What is the ratio of shaded to non-shaded parts of the shape?



$$\boxed{7} : \boxed{17}$$

- 9 A logo is made from four identical right-angled triangles.



Find the area of one of the triangles.

$$\boxed{20 \text{ cm}^2}$$