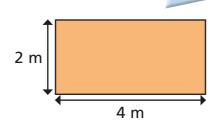
Convert metric units of area



a) Work out the area of the rectangle in m²

i	
area =	m



H

b) Convert the lengths of the sides to cm.

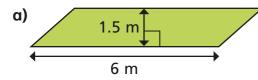
length =	cm
iciigai –	C11

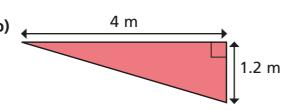
c) Now work out the area of the rectangle in cm²

d) Use your workings to complete the sentences.

	m ² =		cm
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Work out the areas of the shapes. Give your answers in both m² and cm²



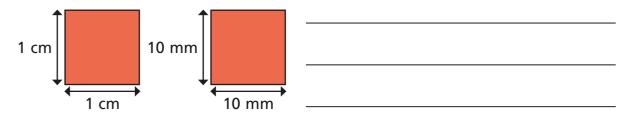


	area =	m²
area =		cm ²



$$1 \text{ cm} = 10 \text{ mm}, \text{ so } 1 \text{ cm}^2 = 10 \text{ mm}^2$$

Use the diagrams to explain why Amir is wrong.



Complete the conversions.

c)
$$0.3 \text{ cm}^2 = \boxed{\text{mm}^2}$$

Dora says you can cut out 36 squares that are 5 mm by 5 mm from a piece of card measuring 3 cm by 3 cm.

b) How many 5 mm by 5 mm squares can be cut from a piece of card measuring 12 cm by 12 cm?



6	Tick the measure that is equal to 1 n	n²
	,	

100 cm²

1,000 cm²

10,000 cm²

Complete the conversions.



$$0.45 \text{ m}^2 = \boxed{\text{cm}^2}$$



d) $60,000 \text{ cm}^2 =$ m^2





 $6,000 \text{ cm}^2 =$ m^2

 m^2

A hectare is a unit of measure of land, roughly the size of a football pitch.

1 hectare = $10,000 \text{ m}^2$

The average farm in the UK is 54 hectares.

a) What is the area of the average farm in the UK in m²?



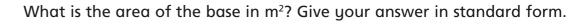
b) What is the area of the average farm in the UK in cm²? Give your answer in standard form.



. cm²

Show that 800 cm^2 is the same as 0.08 m^2

An army base measures 3 km by 7 km.



A UK postage stamp has an area of 480 mm²

The area of an A4 sheet is 0.062 m²

a) Approximately how many postage stamps cover an A4 sheet of paper without overlap?

-		

b) Why can you not give an exact answer to part a)?

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