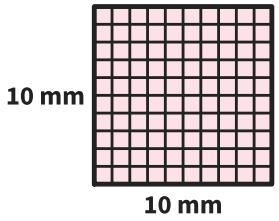
Converting units of area and volume

1

Convert 6 cm^2 to mm^2.



1 cm is 10 mm each way

$1\ cm^2 =$ 10 × 10 = 100 mm^2

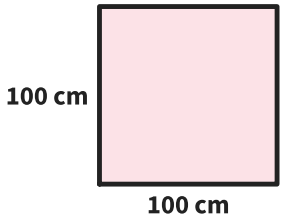
smaller unit, so multiply

$6 \times$ ☐ = ☐ mm^2

Answer _____

2

Convert 2.4 m^2 to cm^2.



1 m is 100 cm each way

$1\ m^2 =$ ☐ × ☐ = ☐ cm^2

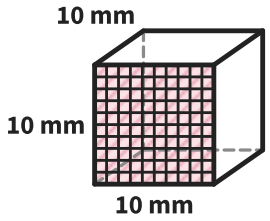
smaller unit, so multiply

$2.4 \times$ ☐ = ☐ cm^2

Answer _____

3

Convert 3 cm^3 to mm^3.



1 cm is 10 mm each way

$1\ cm^3 =$ ☐ × ☐ × ☐ = ☐ mm^3

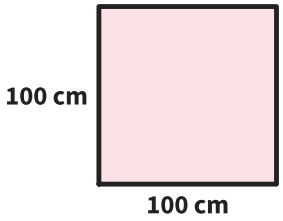
smaller unit, so multiply

$3 \times$ ☐ = ☐ mm^3

Answer _____

4

Convert 50 000 cm^2 to m^2.



1 m is 100 cm each way

$1\ m^2 =$ ☐ × ☐ = ☐ cm^2

bigger unit, so divide

$50\,000 \div$ ☐ = ☐ m^2

Answer _____

5

Convert 0.7 m^3 to cm^3.

Answer _____

6

Jade says 5 m^2 = 500 cm^2.
Explain Jade's mistake.
Then convert 5 m^2 to cm^2.

Answer _____

7

Convert 8500 mm^3 to cm^3.

Answer _____

8

A tin of paint holds 4500 cm^3.
1 litre = 1000 cm^3. How many litres of paint does the tin hold?

Answer _____

Converting units of area and volume *further practice*

9

Convert 360 mm^2 to cm^2.

Answer _____

10

Which is bigger, 2.5 m^2 or 24 000 cm^2?
Show how you know.

Answer _____

11

A tablecloth is a rectangle 2 m long and 1.5 m wide. Find its area in cm^2.

Answer _____

12

Fill in the boxes. (1 litre = 1000 cm^3)

0.04 m^3 = ☐ cm^3

= ☐ litres

13

A floor has an area of 18 m^2. It is covered with square tiles 30 cm by 30 cm.
How many tiles are needed?

Answer _____

14

Write these areas in order, smallest first.

0.3 m^2 2900 cm^2 310 000 mm^2

Answer _____

15

A rainwater tank is a cuboid 1.5 m long, 80 cm wide and 50 cm high.
How many litres does it hold when it is full? (1 litre = 1000 cm^3)

Answer _____

16

Kai says that 2 m^3 of water is 200 litres.
Is Kai right? Explain. (1 litre = 1000 cm^3)

Answer _____