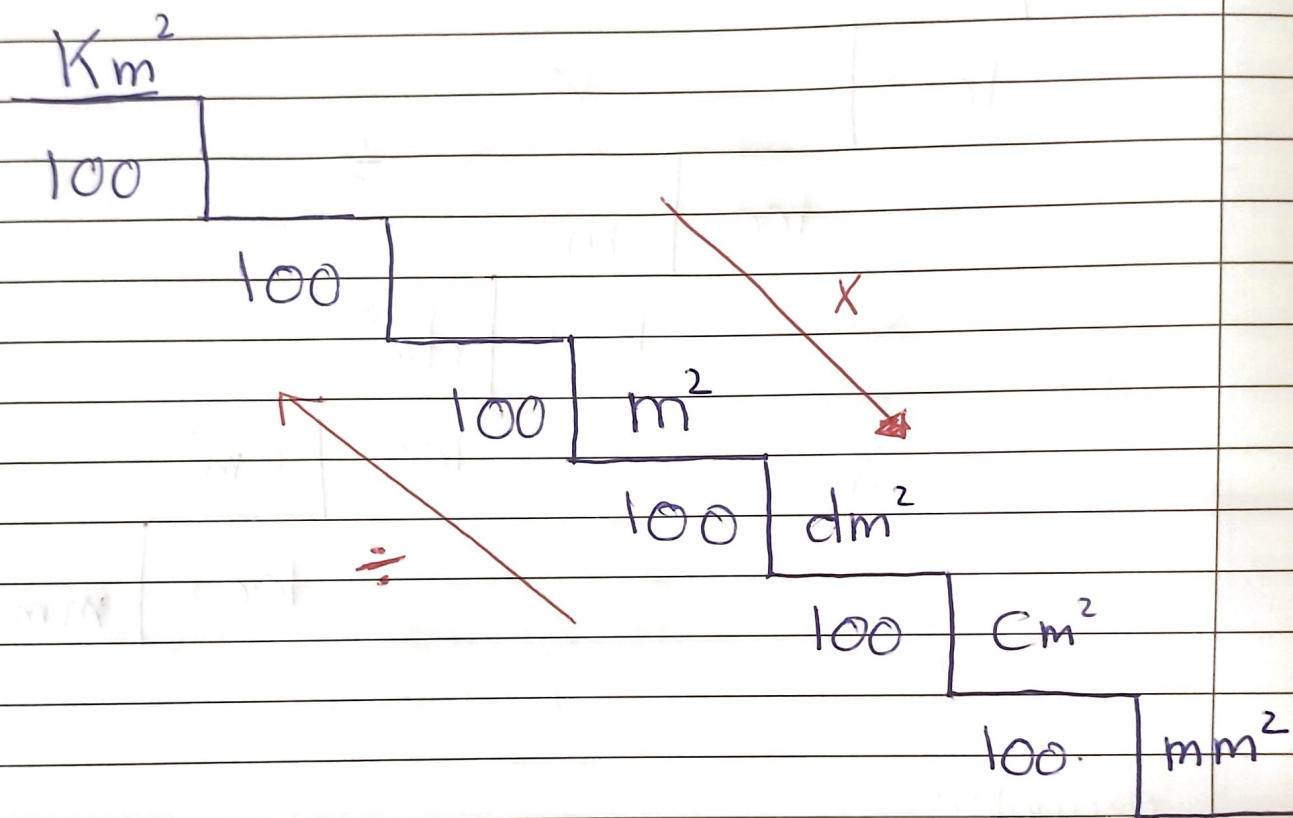


Converting units of area.



example 1: change 3 cm^2 to mm^2

$$3 \text{ cm}^2 \times 100 = 300 \text{ mm}^2$$

we multiplied by 100 because we moved down the stairs by 1 step.

example 2: $32789 \text{ m}^2 = 0.032789 \text{ Km}^2$

↓
 $\div 1000000 \rightarrow$ 3 steps up means dividing by 100 each time

Unit of area.



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

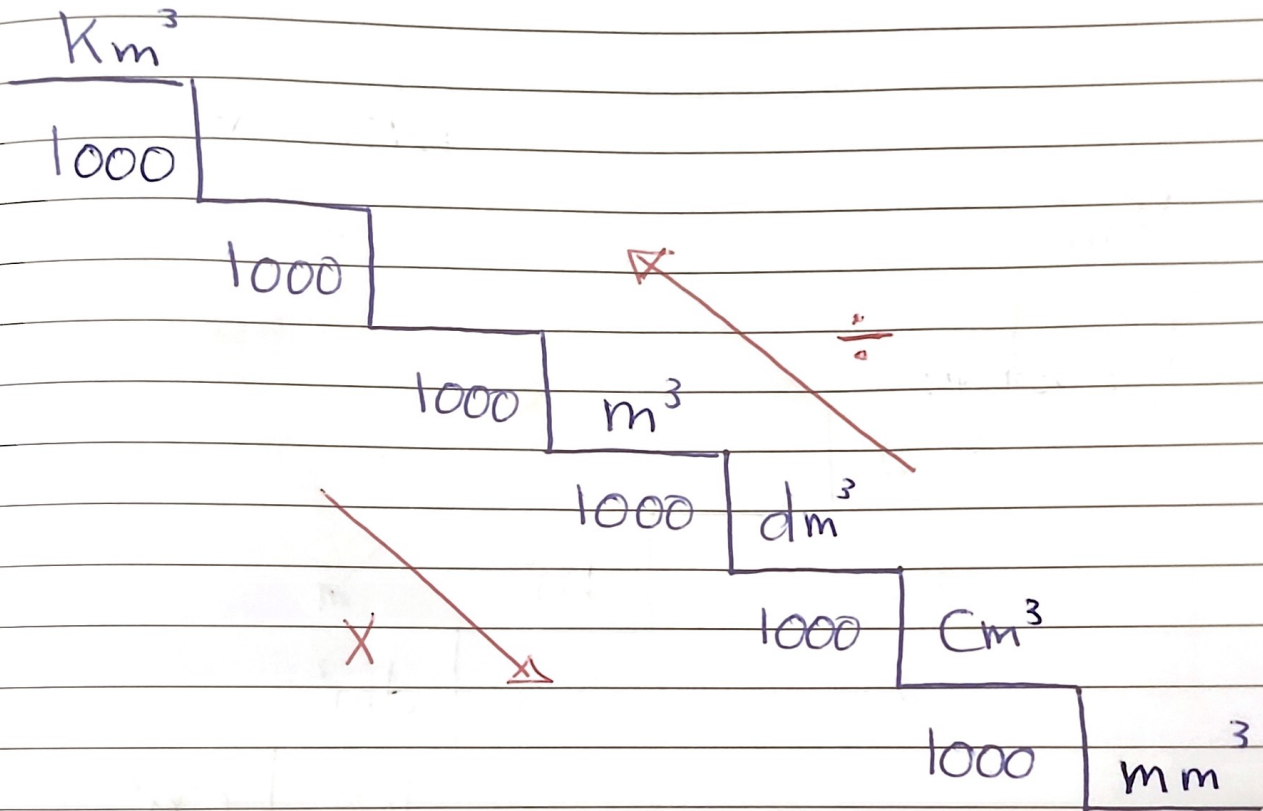
change 2 hectare to m^2

$$2 \times 10\,000 = 20\,000 \text{ m}^2$$

change 4000 m^2 to hectare

$$4000 \div 10000 = 0.4 \text{ hectare}$$

Converting units of Volume



examples:

1) $2 \text{ m}^3 = 2 \times 1000 \text{ } 000 \rightarrow$ two steps
 $2 \text{ m}^3 = 2000 \text{ } 000 \text{ cm}^3$ down, means
 $\times 1000$ twice

~~$\square$~~ $\times 1000 \times 1000$
 $=$ ~~$\square$~~ $\times 1000 \text{ } 000$

2) $4 \text{ mm}^3 = \underline{0.004} \text{ cm}^3$
 $\downarrow$
 $\div 1000$ because we move up (1) step.

$$1 \text{ mL} = 1 \text{ cm}^3 \rightarrow \text{the same value}$$

$$1 \text{ L} = 1000 \text{ cm}^3$$

examples:

$$5 \text{ mL} = 5 \text{ cm}^3 \rightarrow \text{We only change the unit and keep the number as is}$$

$$3 \text{ L} = \boxed{} \text{ cm}^3$$

$$3 \text{ L} \times \underline{1000} = 3000 \text{ cm}^3$$



because $\text{mL} \equiv \text{cm}^3$