

Name: _____

VOLUME

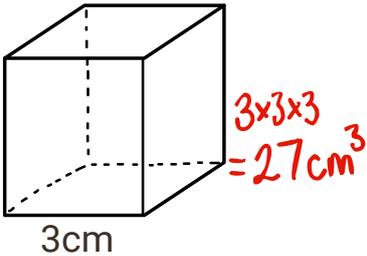
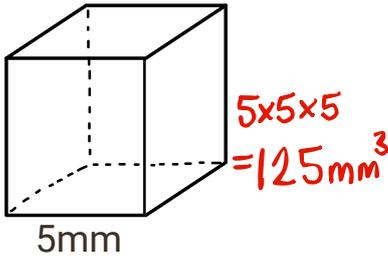
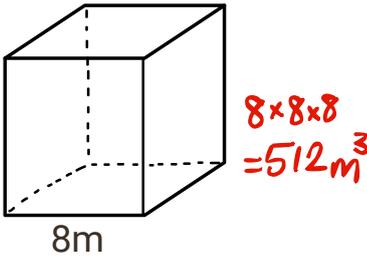
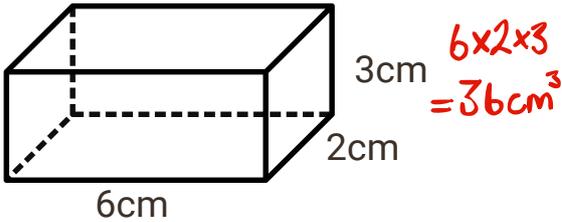
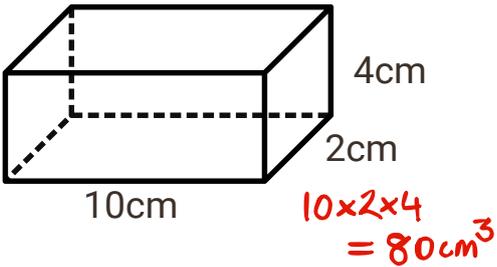
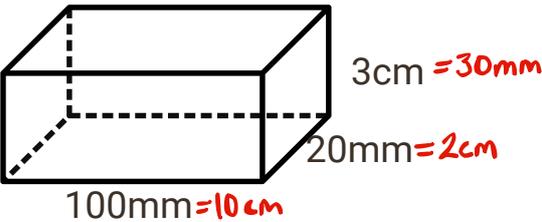
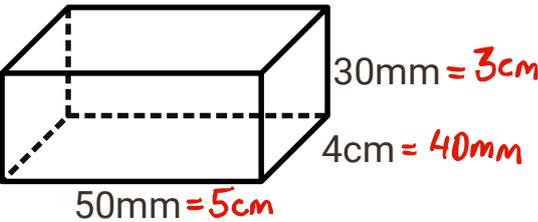


- Volume is the amount of space inside a 3D shape, measured in **cubic units** (e.g., cm^3 , m^3).
- For a **cuboid**, use the formula: **Volume = Length \times Width \times Height**.

In a cube, all the sides are the same length.

- This means the formula becomes: **Volume = Length \times Length \times Length**.

Calculate the volume of the following (diagrams not to scale):

- 1)  3cm $3 \times 3 \times 3 = 27 \text{cm}^3$
- 2)  5mm $5 \times 5 \times 5 = 125 \text{mm}^3$
- 3)  8m $8 \times 8 \times 8 = 512 \text{m}^3$
- 4)  6cm, 2cm, 3cm $6 \times 2 \times 3 = 36 \text{cm}^3$
- 5)  10cm, 2cm, 4cm $10 \times 2 \times 4 = 80 \text{cm}^3$
- 6)  100mm, 20mm, 3cm $100 \text{mm} = 10 \text{cm}$, $20 \text{mm} = 2 \text{cm}$, $3 \text{cm} = 30 \text{mm}$
 $10 \times 2 \times 3 = 60$
 60cm^3 or $100 \times 20 \times 30 = 60000 \text{mm}^3$
- 7)  50mm, 4cm, 30mm $50 \text{mm} = 5 \text{cm}$, $4 \text{cm} = 40 \text{mm}$, $30 \text{mm} = 3 \text{cm}$
 $5 \times 4 \times 3 = 60$
 60cm^3 or $50 \times 40 \times 30 = 60000 \text{mm}^3$