

Lesson 57 **NUMBER****Volume of cuboids**

WHAT THIS LESSON TEACHES

Volume is the space inside a 3D shape. For a cuboid: Volume = **length × width × height**. The unit is cubic — cm^3 , m^3 .

→ A $4 \times 3 \times 2$ cm box: $4 \times 3 \times 2 = 24 \text{ cm}^3$.

→ A $10 \times 10 \times 5$ cm tank: **500 cm^3** (or 0.5 litres).

ANSWER KEY

a) $4 \times 3 \times 2 = 24 \text{ cm}^3$.

Q1: 792 cm^3

b) $5^3 = 125 \text{ cm}^3$.

Q2: 780 cm^3

c) $10 \times 4 \times 3 = 120 \text{ cm}^3$.

Q3: 22.2 m^3

d) $2 \times 1.5 \times 0.5 = 1.5 \text{ m}^3 = 1,500 \text{ L}$.

Q4: 48.951 m^3

EXTENSION SHEET · STRETCH ANSWERS

S1: 46.464 m^3

S3: 500 cm^3

S2: 1960 cm^3