

Working out volumes of everyday objects - answers

1. A storage container is 60 cm long, 25 cm wide and 15 cm deep. What is its volume in cubic centimetres?

$$\text{Volume: } 60 \times 25 \times 15 \\ = 22,500 \text{ cm}^3$$

2. Bindi is going to order some ready-mixed concrete for an area 6 m long and 5 m wide, which she wants to fill to a depth of 10 cm. How many cubic metres will she need?

$$\text{Volume: } 6 \times 5 \times 0.1 \\ = 3 \text{ m}^3$$



3. Dee's window box is a cuboid of length 1 m, width 22 cm and depth 24 cm. What is its volume in cubic centimetres?

$$\text{Volume: } 100 \times 22 \times 24 \\ = 52,800 \text{ cm}^3$$

4. Andy's drive is a rectangle 7.5 m long by 6 m wide and he wants to cover it to a depth of 10 cm. How many cubic metres of gravel will he need?

$$\text{Volume: } 7.5 \times 6 \times 0.1 \\ = 4.5 \text{ m}^3$$

5. How many bags of sand will be needed to fill a rectangular sandpit 6.5m long and 4m wide to a depth of 30cm? Each bag contains 1 cubic metre of sand.

$$\text{Volume: } 6.5 \times 4 \times 0.3 \\ = 7.8 \text{ m}^3$$

So eight bags of sand are needed.