

# Volume: Rectangular Prisms 1

Calculating Volume.

20 cm 10 cm

20 cm

Not to scale.

Formula

Volume = Length  $\times$  Width  $\times$  Height

Calculate the answer.

Back

$$V = L \times W \times H$$
$$= 20 \times 10 \times 20$$
$$= 4000 \text{ cm}^3$$

## Description

In this activity students calculate the volume of rectangular prisms by applying the formula.

## Teaching Hints

Use the visualisation to show the formula for calculating volume. Explain why the units are cubed when calculating volume. Discuss the difference between volume and capacity.

## Activities

Calculate the volume.

3 m 3 m

4 m

Not to scale.

Volume = 36 m<sup>3</sup> ✓

Easier Example

Calculate the volume.

2 cm 7 cm

6 cm

Not to scale.

Volume = 84 cm<sup>3</sup> ✓

Medium Example

Calculate the volume.

2 mm 4 mm

4 mm

Not to scale.

Volume = 32 mm<sup>3</sup> ✓

Harder Example