

Volume: Rectangular Prisms 1

Calculate the volume of the rectangular prism.

2 mm 8 mm

7 mm

Not to scale.

Volume = $B \times H$

$V = L \times W \times H$

$= 7 \times 8 \times 2$

$= 112 \text{ mm}^3$

Calculate the answer.

Formula

Volume = Area of Base \times Height

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Description

In this activity, students use the formula to work out the volume of the rectangular prism.

Teaching Hints

Use the visualization to introduce students to the formula for volume and show them how to substitute the values. An activity could involve building their own prisms out of blocks, then counting the blocks to find the volume.

Activities

Calculate the volume of the rectangular prism.

3 mm 5 mm

3 mm

Volume = 45 mm^3 ✓

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Easier Example

Calculate the volume of the rectangular prism.

9 cm 10 cm

20 cm

Volume = 1800 cm^3 ✓

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Medium Example

Calculate the volume of the rectangular prism.

7 m 10 m

30 m

Volume = 2100 m^3 ✓

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Harder Example