



How much space does this book take up on the table?

The space a prism takes up on a table is the area of its base.

$$A = L \times W$$

$$= \text{cm} \times \text{cm}$$

$$= \text{cm}^2$$

How much sand would I need to fill this box?

The space filled inside a prism is its volume.

$$V = L \times W \times H$$

$$V = \text{cm} \times \text{cm} \times \text{cm}$$

$$= \text{cm}^3$$



A pizza box has these dimensions. L 30 cm W 32 cm H 5 cm

How much space does this pile of boxes take up on the table?

What is the volume of the pizza boxes combined?

We measure the volume in: m^3 m^2 kg

We measure capacity in: m^3 m^2 L

We measure area in: m^3 m^2 cm

We measure mass in: m^3 m^2 kg L g



$$L = 3\text{m}$$

$$W = 2\text{m}$$

$$H = 50\text{ cm}$$

$$50\text{ cm} = \text{m}$$

How much space does this sandpit take up in the yard?

$$= \text{m} \times \text{m}$$

$$= \text{m} \times \text{m}$$

$$= \text{m}^2$$

How much sand would I need to fill this box?

$$= \text{m} \times \text{m} \times \text{m}$$

$$= \text{m} \times \text{m} \times \text{m}$$

$$= \text{m}^3$$



$$L = 5\text{m}$$

$$W = 4\text{m}$$

$$H = 70\text{ cm}$$

$$70\text{ cm} = \text{m}$$

How much space does this sandpit take up in the yard?

$$= \text{m} \times \text{m}$$

$$= \text{m} \times \text{m}$$

$$= \text{m}^2$$

How much sand would I need to fill this box?

$$= \text{m} \times \text{m} \times \text{m}$$

$$= \text{m} \times \text{m} \times \text{m}$$

$$= \text{m}^3$$