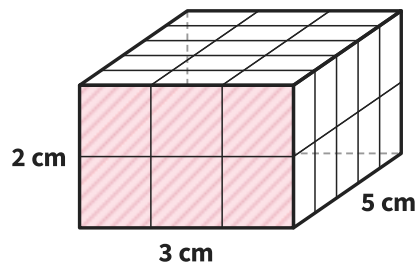


Volume of Prisms

ANSWERS

1

Work out the volume of the cuboid.

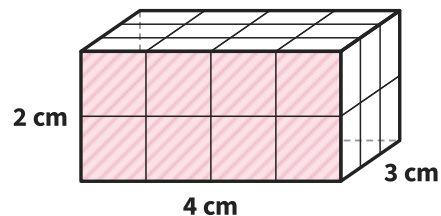


$$\text{cross-section} = 3 \times 2 = 6 \text{ cm}^2$$

$$v = 6 \times 5 = 30 \text{ cm}^3$$

2

Work out the volume of the cuboid.

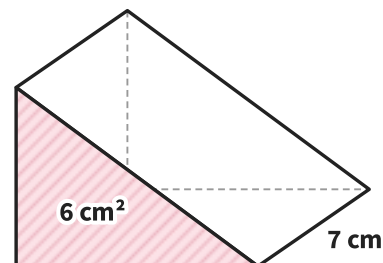


$$\text{cross-section} = 4 \times 2 = 8 \text{ cm}^2$$

$$v = 8 \times 3 = 24 \text{ cm}^3$$

3

Work out the volume of the prism.

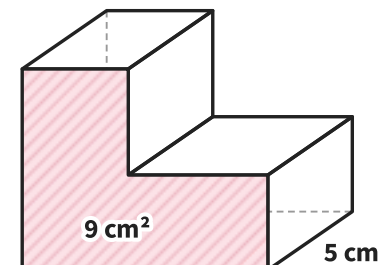


$$\text{cross-section} = 6 \text{ cm}^2$$

$$v = 6 \times 7 = 42 \text{ cm}^3$$

4

Work out the volume of the prism.

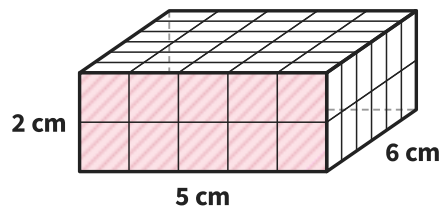


$$\text{cross-section} = 9 \text{ cm}^2$$

$$v = 9 \times 5 = 45 \text{ cm}^3$$

5

Work out the volume of the cuboid.

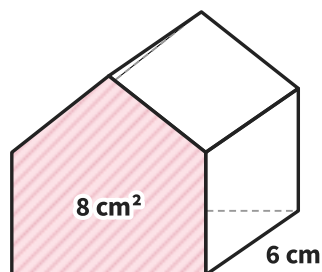


$$\text{cross-section} = 5 \times 2 = 10 \text{ cm}^2$$

$$v = 10 \times 6 = 60 \text{ cm}^3$$

6

Work out the volume of the prism.

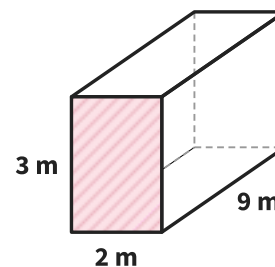


$$\text{cross-section} = 8 \text{ cm}^2$$

$$v = 8 \times 6 = 48 \text{ cm}^3$$

7

A shipping container is a cuboid.
Work out its volume.

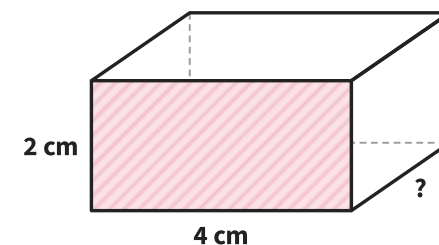


$$\text{cross-section} = 2 \times 3 = 6 \text{ m}^2$$

$$v = 6 \times 9 = 54 \text{ m}^3$$

8

The volume is 40 cm^3 .
Work out the length.



$$\text{cross-section} = 4 \times 2 = 8 \text{ cm}^2$$

$$v = 8 \times 5 = 40 \text{ cm}^3$$

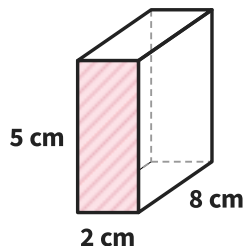
Volume of Prisms *further practice*

ANSWERS

9



Work out the volume of the cuboid.



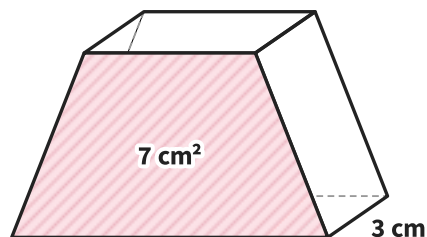
$$\text{cross-section} = 2 \times 5 = 10 \text{ cm}^2$$

$$V = 10 \times 8 = 80 \text{ cm}^3$$

10



Work out the volume of the prism.



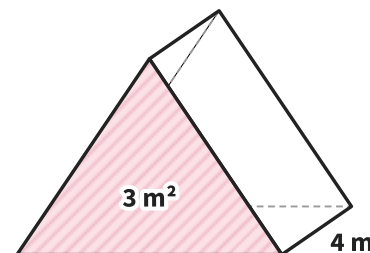
$$\text{cross-section} = 7 \text{ cm}^2$$

$$V = 7 \times 3 = 21 \text{ cm}^3$$

11



A tent is a prism.
Work out its volume.



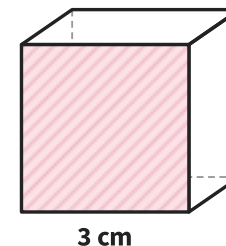
$$\text{cross-section} = 3 \text{ m}^2$$

$$V = 3 \times 4 = 12 \text{ m}^3$$

12



Work out the volume of the cube.



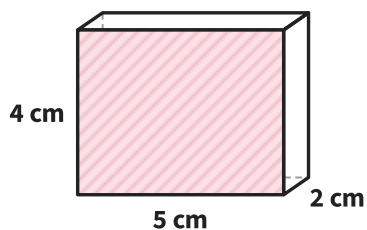
$$\text{cross-section} = 3 \times 3 = 9 \text{ cm}^2$$

$$V = 9 \times 3 = 27 \text{ cm}^3$$

13



Work out the volume of the cuboid.



$$5 \times 4 = 20$$

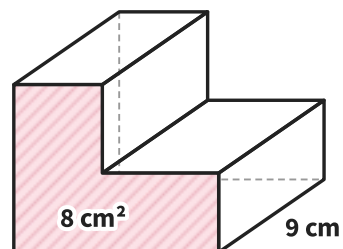
$$20 \times 2 = 40$$

Answer 40 cm^3

14



A wooden block is a prism.
Work out its volume.



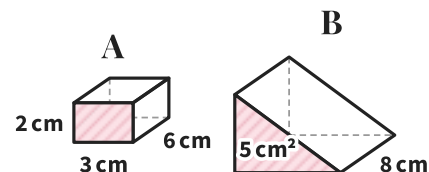
$$8 \times 9 = 72$$

Answer 72 cm^3

15



Which prism has the bigger volume, A or B?



Volume of A 36 cm^3

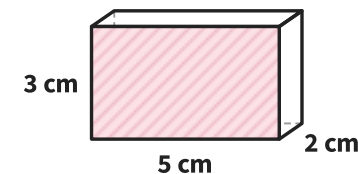
Volume of B 40 cm^3

Answer B

16



Sam says the volume is $5 + 3 + 2 = 10 \text{ cm}^3$. What has Sam done wrong?



Sam added the lengths. *Multiply them.*

The volume is 30 cm^3 .