

9 Here is a cuboid.



9 (a) Assume that the total surface area of the cuboid is 200 cm²

Work out the volume of the cuboid.

[3 marks]

Total surface area = Sum of the area of all the faces.

$$2 \times 5 \times 5 + 2 \times 5 \times y + 2 \times 5 \times y = 200$$

$$50 + 20y = 200$$

$$20y = 150$$

$$y = 7.5 \text{ cm}$$

Volume = $l \times w \times h$

$$= 7.5 \times 5 \times 5 = \underline{187.5 \text{ cm}^3}$$

Answer 187.5 cm³

9 (b) In fact, the total surface area of the cuboid is smaller than 200 cm²

What does this mean about the volume of the cuboid?

Tick one box.

[1 mark]

It is smaller than the answer to part (a)

It is bigger than the answer to part (a)

It is the same as the answer to part (a)

It could be any of the above

$$20y + 50 = 200 \downarrow$$

$$20y = 150 \downarrow$$

$$y = 7.5 \downarrow$$

$$\checkmark \downarrow = 5 \times 5 \times 7.5 \downarrow$$

Hence, Volume will be less than 187.5 cm^3

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