

1. Complete these statements:

1000 mm = _____ m.

1430 mm = _____ m.

3000 mm = _____ m.

4290 mm = _____ m.

5000 mm = _____ m.

4920 mm = _____ m.

6000 mm = _____ m.

4130 mm = _____ m.

7000 mm = _____ m.

10 m = _____ mm.

10000 mm = _____ m.

30 m = _____ mm.

1500 mm = _____ m.

100 m = _____ mm.

3500 mm = _____ m.

300 m = _____ mm.

5500 mm = _____ m.

105 m = _____ mm.

6500 mm = _____ m.

305 m = _____ mm.

7500 mm = _____ m.

104 m = _____ mm.

9500 mm = _____ m.

320 m = _____ mm.

10500 mm = _____ m.

18 m = _____ mm.

12500 mm = _____ m.

3854 mm = _____ m.

5700 mm = _____ m.

1423 mm = _____ m.

3600 mm = _____ m.

30.2 m = _____ mm.

1200 mm = _____ m.

1045 mm = _____ m.

3400 mm = _____ m.

5.05 m = _____ mm.

1300 mm = _____ m.

6475 mm = _____ m.

9400 mm = _____ m.

2.185 m = _____ mm.

7200 mm = _____ m.

1.23 m = _____ mm.

9900 mm = _____ m.

3074 mm = _____ m.

15500 mm = _____ m.

10.7 m = _____ mm.

32500 mm = _____ m.

3823 mm = _____ m.

1140 mm = _____ m.

1.254 m = _____ mm.

3140 mm = _____ m.

9653 mm = _____ m.

2. 1000 cm^3 volume = 1 litre in capacity.
What is the capacity of the following:

$$1500 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

$$2500 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

$$3500 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

$$4500 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

$$5050 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

$$5060 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

$$5070 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

$$\underline{\hspace{2cm}} \text{ cm}^3 = 5.65 \text{ litres.}$$

$$5090 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

$$3500 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

$$4500 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

$$\underline{\hspace{2cm}} \text{ cm}^3 = 8.4 \text{ litres.}$$

$$9500 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

$$6050 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

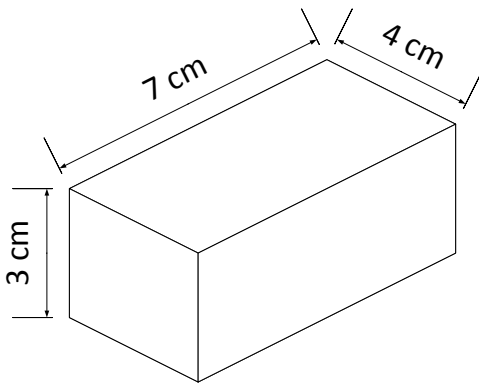
$$7060 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

$$9070 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

$$\underline{\hspace{2cm}} \text{ cm}^3 = 3 \text{ litres.}$$

$$6090 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ litre.}$$

3 a

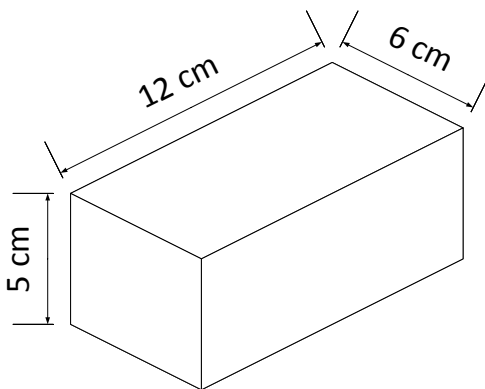


The length, breadth and the height of the cuboid are shown on the diagram.

Calculate the volume of the cuboid.

Calculate the surface area of the same cuboid.

3 b

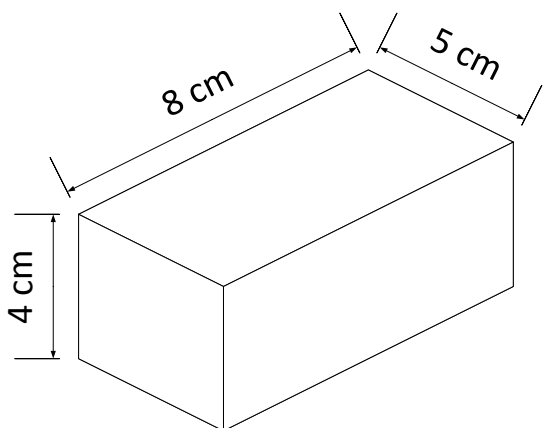


The dimensions of the cuboid are shown on the diagram.

Calculate the volume of the cuboid.

Calculate the surface area of the cuboid.

3 c

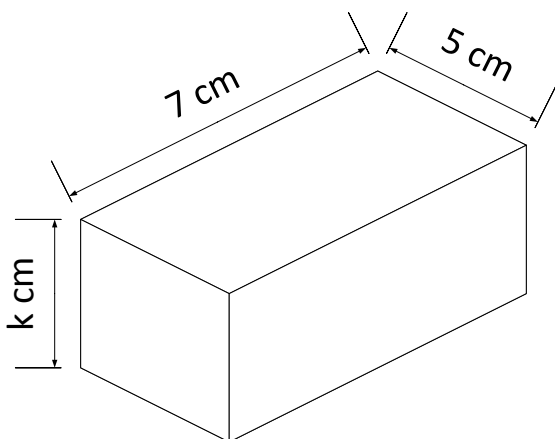


The sides of the cuboid are all shown on the diagram.

Calculate the volume of the cuboid.

Calculate the surface area of the cuboid.

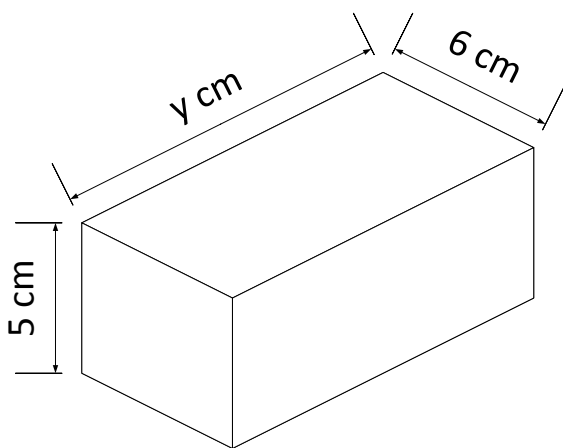
3d



The cuboid in the diagram has a total volume of 70 cm^3 .

Using this information, calculate the height of the cuboid.

Calculate the surface area of the cuboid.



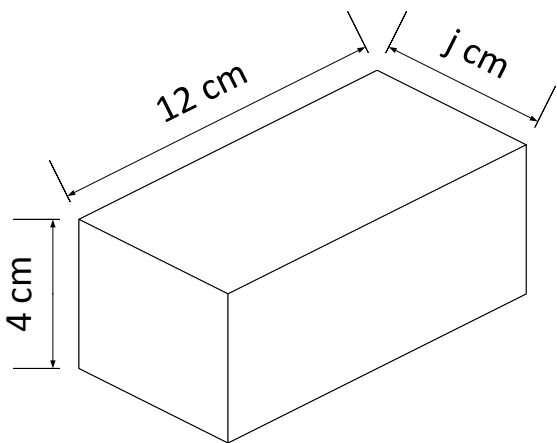
3 e

The volume of the shape shown is 330 cm^3 .

What is the length (y) of the cuboid?

Calculate the surface area of the cuboid using your answer to the earlier part of the question.

3 f

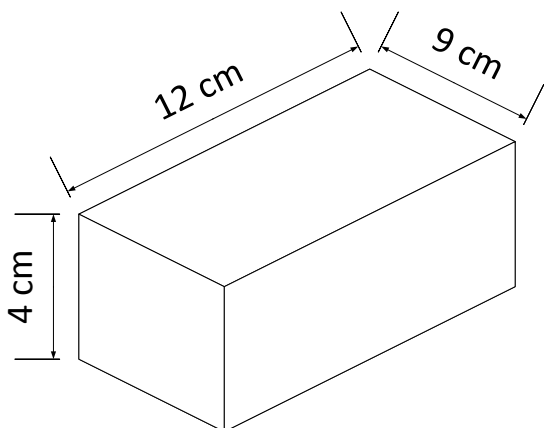


The volume of the cuboid shown is 192 cm^3 .

Work out the length of j .

Calculate the surface area of the cuboid.

Examples to help you:



$$\text{Volume} = \text{length} \times \text{breadth} \times \text{height}$$

$$= 12 \times 9 \times 4$$

$$= 108 \times 4$$

$$= 432 \text{ cm}^3$$

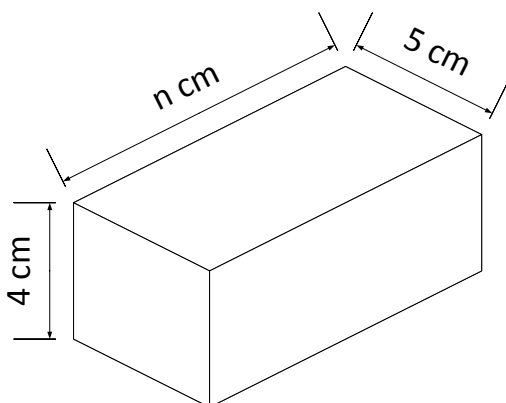
$$\text{Surface Area} = 2(\text{Area of A}) + 2(\text{Area of B}) + 2(\text{Area of C})$$

$$= 2(12 \times 9) + 2(9 \times 4) + 2(12 \times 4)$$

$$= 2(108) + 2(36) + 2(48)$$

$$= 216 + 72 + 96$$

$$= 384 \text{ cm}^2$$



The Volume of the cuboid is 900 cm^3 .

What is the value of n?

$$\text{Volume} = \text{length} \times \text{breadth} \times \text{height}$$

$$\text{So Length} = \frac{\text{Volume}}{\text{breadth} \times \text{height}}$$

$$= \frac{900}{5 \times 4}$$

$$= 45 \text{ cm long.}$$