1 Here is a cube.

Not drawn accurately

3 cm

1 (a) Work out the volume of the cube. **[2 marks]**

Answer _____ cm^3

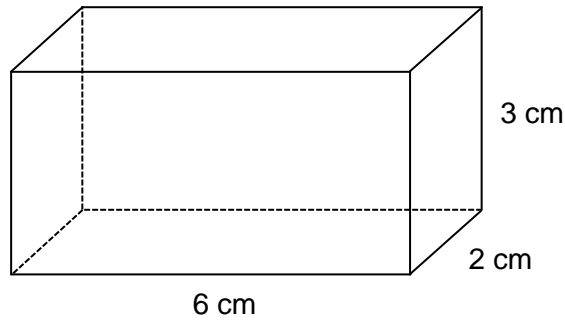**1 (b)** Work out the surface area of the cube. **[2 marks]**

Answer _____ cm^2

$\frac{}{4}$

2 Here is a cuboid.

Not drawn accurately

3 cm

2 cm

6 cm

2 (a) Work out the volume of the cuboid. **[2 marks]**

Answer _____ cm³

2 (b) Work out the surface area of the cuboid. **[3 marks]**

Answer _____ cm²

3   Here is a cuboid.

4 cm

6 cm

15 cm

3 (a)   Work out the volume of the cuboid.   **[2 marks]**

Answer _____ cm³

3 (b)   Work out the surface area of the cuboid.   **[3 marks]**

Answer _____ cm²

10

Turn over ▶

4 Here is a cuboid.

2.5 m

5 m

Not drawn
accurately

4 m

4 (a) Work out the volume of the cuboid. **[2 marks]**

Answer _____ m³

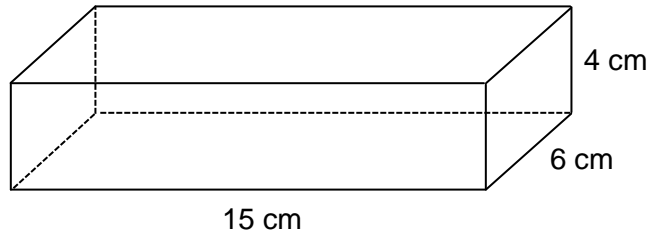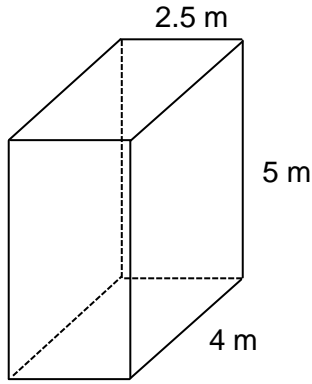**4 (b)** Work out the surface area of the cuboid. **[3 marks]**
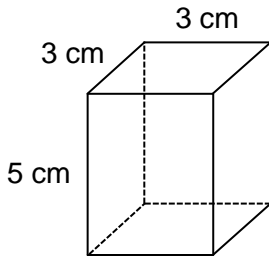
Answer _____ m²

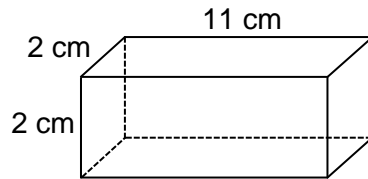© 2024 1stclassmaths Solutions

5 Here are three cuboids.

Not drawn
accurately
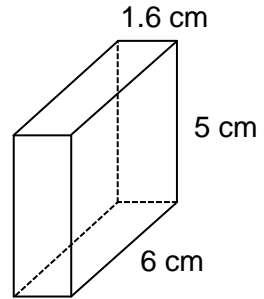
Cuboid A   **Cuboid B**   **Cuboid C**

Work out the cuboid that has the greatest volume.
You must show your working.

[4 marks]
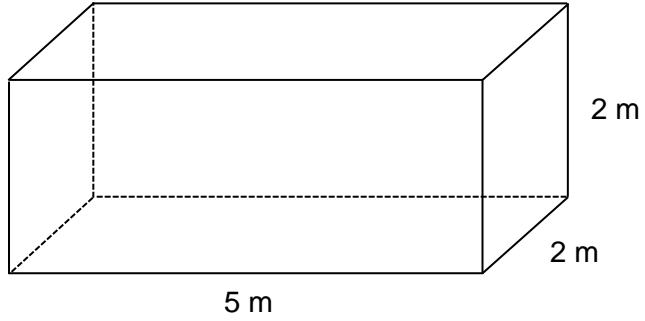
Answer _____

Turn over ▶

6   Here is a small cuboid and a large cuboid.

Not drawn accurately

25 cm

20 cm

20 cm

2 m

2 m

5 m
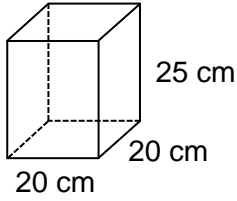
Work out how many of the smaller cuboids could fit into the larger cuboid.

[4 marks]

Answer _____

7 Here are two cuboids with the same volume.

Not drawn accurately

3 cm

3 cm

3 cm

16 cm

h cm

6 cm
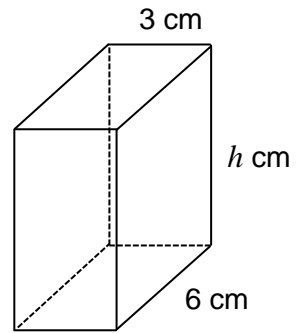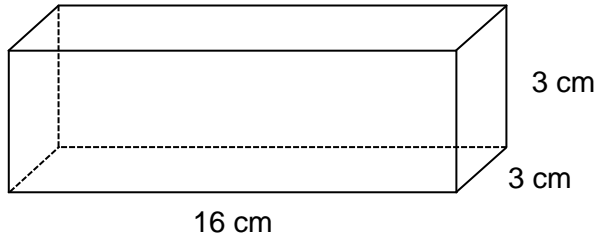
Work out the value of h. **[4 marks]**

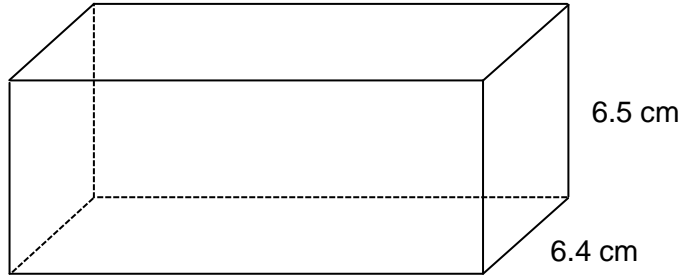$h =$ _____ cm

Turn over ▶

8   Here is a cuboid.

6.5 cm

6.4 cm

The volume of the cuboid is 624 cm^3

Work out the surface area of the cuboid.   **[4 marks]**

Answer _____ cm^2

9   Here is a cuboid.
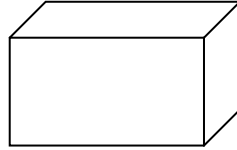
The identical copies of the cuboid are stacked together to make a larger cuboid.
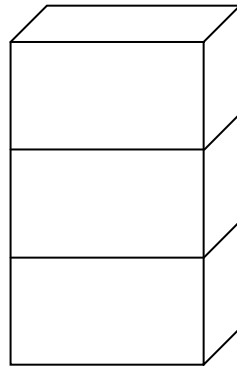
For each statement below, tick one box.   **[3 marks]**

	True	**False**
The height of the new cuboid is 3 times the height of the original cuboid.	☐	☐
The volume of the new cuboid is 3 times the volume of the original cuboid.	☐	☐
The surface area of the new cuboid is 3 times the surface area of the original cuboid.	☐	☐

7

Turn over ▶

10   A cuboid is placed onto a flat surface so that the bottom face is no longer visible.

1.2 m

Not drawn
accurately

1 m

0.8 m

The five visible faces of the cuboid are to be painted.
Each tin of paint can cover an area of 1 m² and costs £3.50

Work out how much it would cost to buy enough tins of paint to paint the five
visible faces of the cuboid.   **[5 marks]**

Answer £ _____

11 A cube has a volume of 1000 cm^3

Work out the surface area of the cube.

[3 marks]

Answer _____ cm^2

12 A cube has a surface area of 54 cm^2

Work out the volume of the cube.

[4 marks]

Answer _____ cm^3

Turn over ▶

13   Here is a cuboid.

5 cm

2.5 cm

Not drawn
accurately

The surface area of the cuboid is 61 cm^2

Work out the volume of the cuboid.   **[5 marks]**

Answer _____ cm^3

5