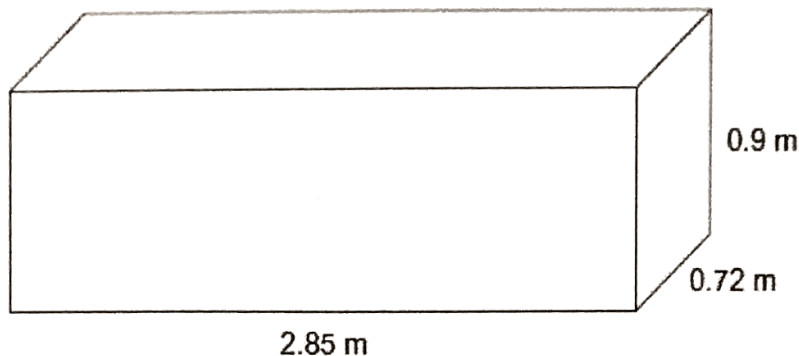


1. Work out the volume of the cuboid. State the units of your answer.



$$\begin{array}{r}
 285 \\
 72 \times \\
 \hline
 570 \\
 19950 + \\
 \hline
 20520
 \end{array}$$

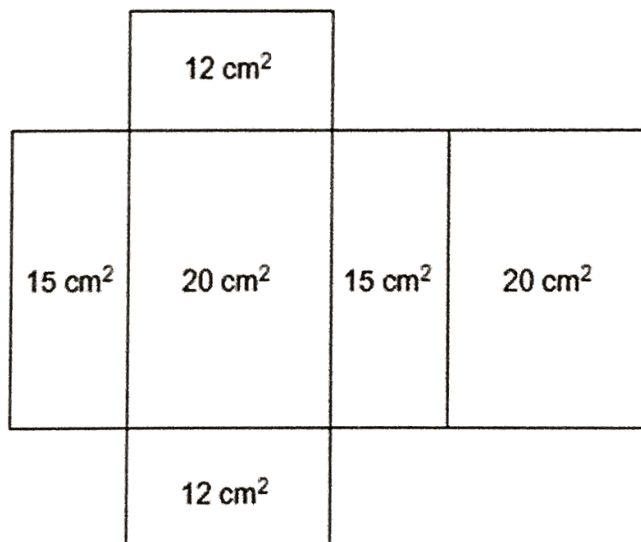
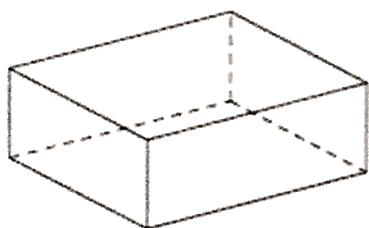
$$\begin{array}{l}
 2.85 \times 0.72 \times 0.9 \\
 = 2.052 \times 0.9 \\
 = 1.8468
 \end{array}$$

$$\begin{array}{r}
 2052 \\
 9 \times \\
 \hline
 18468
 \end{array}$$

Answer 1.8468 m³

(Total 3 marks)

2. Here is the net of a cuboid. The net shows the area of each face. Not drawn accurately



Work out the **volume** of the cuboid.

$$\begin{array}{l}
 \text{HCF of } 15 \text{ and } 20 = 5 \\
 \text{HCF of } 12 \text{ and } 20 = 4 \\
 \text{HCF of } 12 \text{ and } 15 = 3 \\
 5 \times 4 \times 3 = 60 \text{ cm}^3
 \end{array}$$

Answer 60 cm³

(Total 3 marks)

3. The total surface area of a cube is 384 cm^2 . Work out the volume of the cube.

$$384 \div 6 = 64 \text{ cm}^2$$

$$\sqrt{64} = 8 \text{ cm}$$

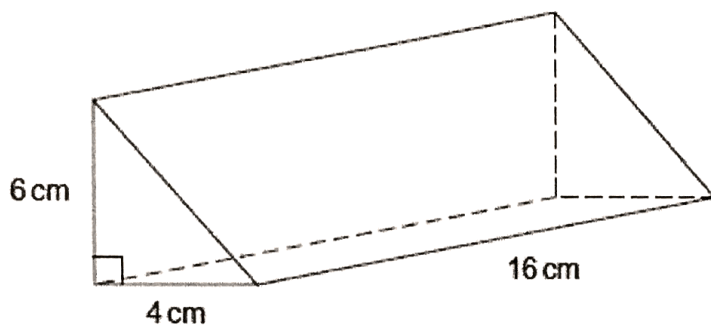
$$8^3 = 512 \text{ cm}^3$$

$$\begin{array}{r} 64 \\ 6 \overline{) 384} \end{array}$$

Answer: 512 cm^3

(Total 4 marks)

4. Calculate the volume of the prism. State the units of your answer.

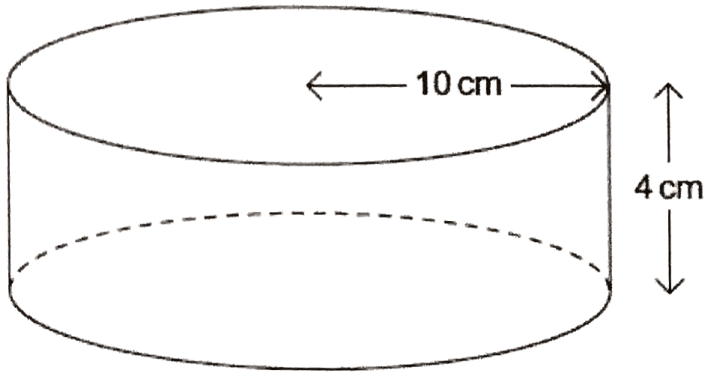


$$\frac{6 \times 4 \times 16}{2} = 12 \times 16 = 192 \text{ cm}^3$$

Answer: 192 cm^3

(Total 4 marks)

5. The radius, r , of the cylinder is 10 cm. The height, h , is 4 cm. The volume, V , of a cylinder is $V = \pi r^2 h$. Work out the volume of the cylinder. Use $\pi = 3.1$



$$10^2 \times 3.1 \times 4 = 310 \times 4 = 1240 \text{ cm}^3$$

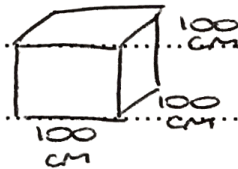
Answer 1240 cm³
(Total 3 marks)

6. A tank contains 0.6 m³ of water. The water is used to fill pots. Each pot can hold 1200 cm³ of water. How many pots can be filled?

$$1 \text{ m}^3 = 1000000 \text{ cm}^3$$

$$0.6 \text{ m}^3 = 600000 \text{ cm}^3$$

$$\frac{600000}{1200} = 500$$



Answer 500
(Total 3 marks)

(Total for test = 20 marks)