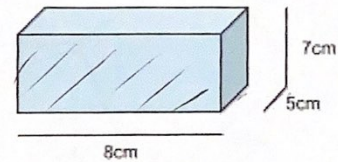




QT Volumes of 3D shapes

1. Work out the volume of this cuboid

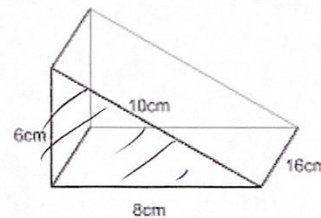
$$\begin{aligned}\text{Volume} &= \text{Area} \times \text{Depth} \\ &= (8 \times 7) \times 5 \\ &= 56 \times 5 \\ &= \underline{\underline{280 \text{ cm}^3}}\end{aligned}$$



$$\begin{array}{r} 56 \\ \times 5 \\ \hline 280 \end{array}$$

2. Work out the volume of this triangular prism.

$$\begin{aligned}\text{Volume} &= \text{Area} \times \text{Depth} \\ &= \left(\frac{b \times h}{2}\right) \times 16 \\ &= \left(\frac{8 \times 6}{2}\right) \times 16 \\ &= 24 \times 16 \\ &= \underline{\underline{384 \text{ cm}^3}}\end{aligned}$$



$$\begin{array}{r} 24 \\ \times 16 \\ \hline 144 \\ 240 \\ \hline 384 \end{array}$$



3. Work out the volume of this prism.

$$\text{Volume} = \text{Area} \times \text{Depth}$$

$$= \frac{1}{2}(a+b)h \times 20$$

$$= \frac{1}{2}(6+14)9 \times 20$$

$$= \frac{1}{2}(20)9 \times 20$$

$$= \underline{90} \times 20$$

$$= \underline{\underline{1800 \text{ cm}^3}}$$

