MASTER COACHING

NAME

SURFACE AREA VOLUME OF PRISMS

ROB OLLIS

Edition 1

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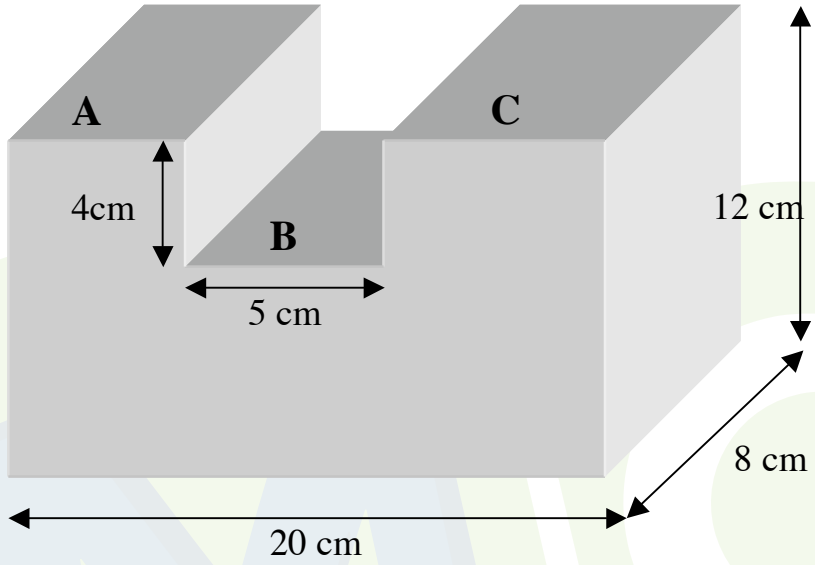
Please realise that diagrams are not drawn to scale

There are usually angles that you must assume are right angles.

There are usually some lengths on the shape that you must deduce.



It is a good idea to practice drawing quick sketches of common shapes

First work out the perimeter P and the area A of the cross section

perimeter P : First note that the dimensions A + B +C = 20 cm

Therefore P = (2 x 20 + 2 x 12 + 2 x 4) cm
= 72 cm

$$\mathbf{A}\ (\text{Area}) = 20cm \times 12cm - 5cm \times 4cm$$
$$= 220cm^2$$

$$V = A \times l$$
$$= 220 \times 8\ cm^3$$
$$= 1760\ cm^3$$

$$\text{Surface Area} = P \times l + 2A$$
$$= 72 \times 8 + 2 \times 220\ cm^2$$
$$= 1016\ cm^2$$