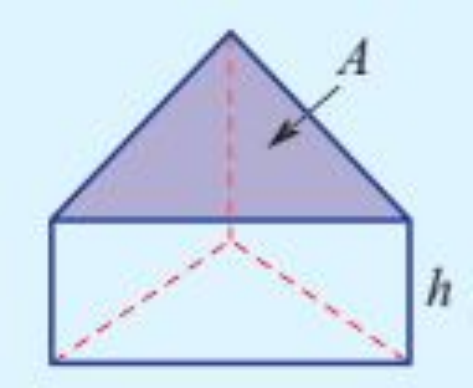
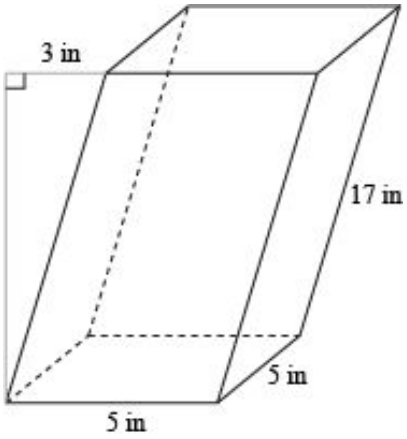
VOLUME OF PRISMS AND CYLINDERS



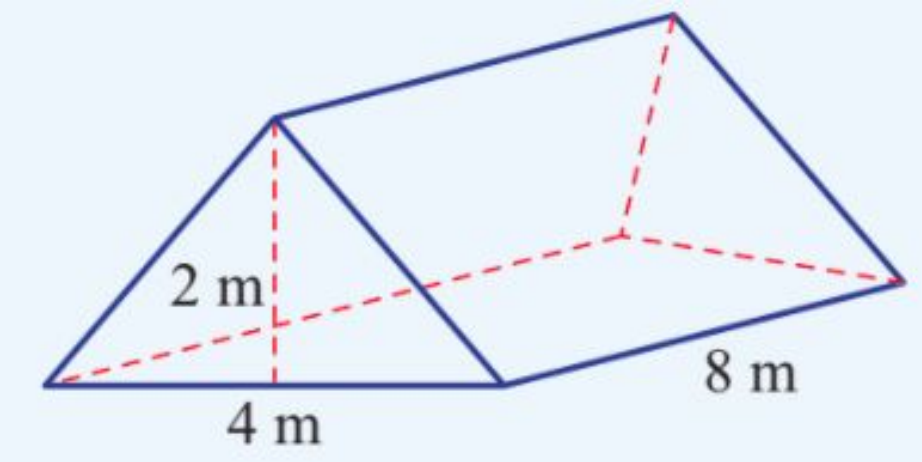


Volume of a prism = Area of cross-section × perpendicular height

$$V = Ah$$

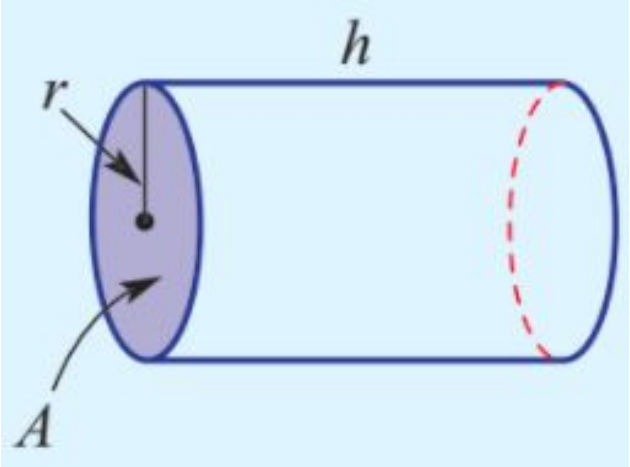
VOLUME OF PRISMS - EXAMPLE

Find the volumes of these prisms.



$$
\begin{aligned}
V &= Ah \\
&= \left(\frac{1}{2} \times 4 \times 2\right) \times 8 \\
&= 32 \text{ m}^3
\end{aligned}
$$

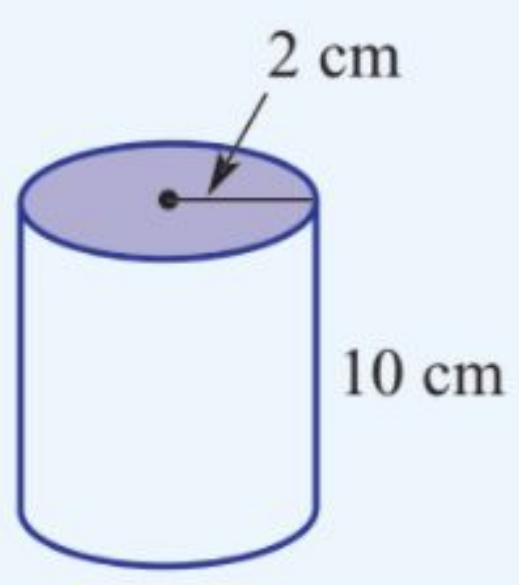
VOLUME OF CYLINDERS



Volume of a **cylinder** $= Ah = \pi r^2 h$

VOLUME OF CYLINDERS - EXAMPLE

Find the volumes of these cylinders, rounding to 2 decimal places.



$$V = \pi r^2 h$$
$$= \pi \times 2^2 \times 10$$
$$= 125.66 \text{ cm}^3 \quad \text{(to 2 decimal places)}$$