

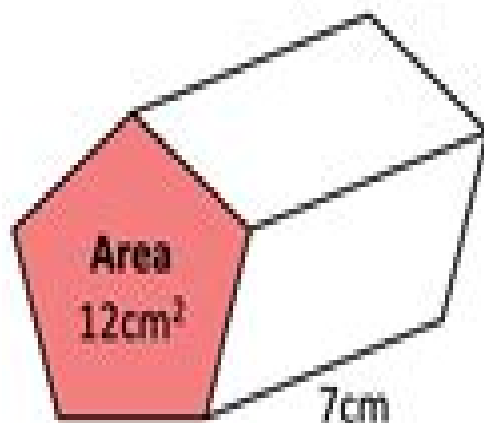
We are learning to: Calculate the volume of a prism.

Once you identify the cross-section and length find the volume by...

$$\text{Volume of a prism} = \text{Area of cross-section} \times \text{length}$$

Ex1 Find the volume of the pentagonal prism.

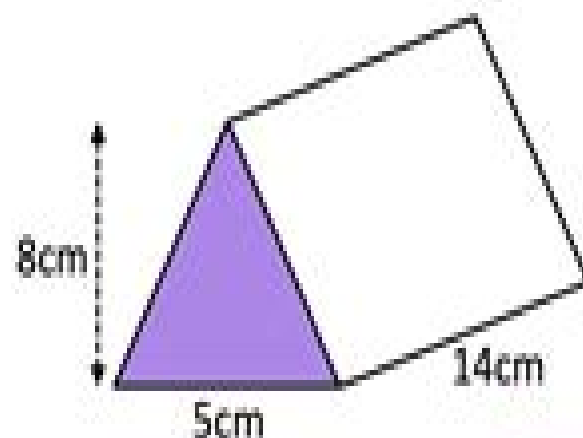
Solution



$$\begin{aligned} \text{Volume} &= 12 \times 7 \\ &= 84\text{cm}^3 \end{aligned}$$

Ex2 Find the volume of the triangular prism.

Solution



$$\begin{aligned} \text{Area of } \Delta &= \frac{5 \times 8}{2} \\ &= 20\text{cm}^2 \end{aligned}$$

$$\begin{aligned} \text{Volume} &= 20\text{cm}^2 \times 14 \\ &= 280\text{cm}^3 \end{aligned}$$

- Developing learners will be able to calculate the volume of a prism.
- Secure learners will be able to find the missing length of a prism given its volume and cross-section.
- Proficient learners will be able to solve unfamiliar problems using their knowledge of calculating the volume of a prism.

KEY TERMS

Topic 5 D Volume Of Prisms

Camilla Rothe



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