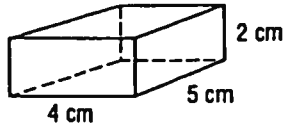


Name _____

8.8 Volumes of Prisms

MATHPOWER™ Eight, pp. 286–287

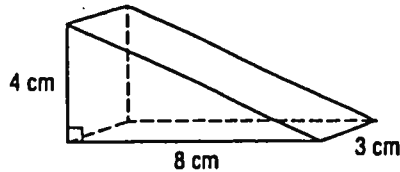
The volume of a prism is the area of the base multiplied by the height of the prism.



Area of base $4 \times 5 = 20$

Volume $20 \times 2 = 40$

The volume is 40 cm^3 .

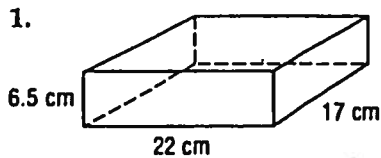


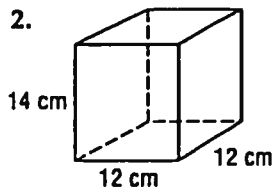
Area of base $\frac{1}{2} \times 4 \times 8 = 16$

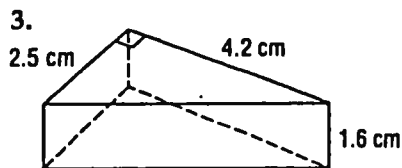
Volume $16 \times 3 = 48$

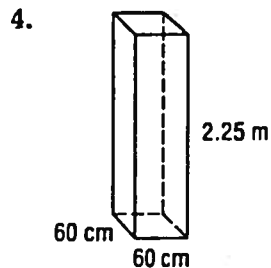
The volume is 48 cm^3 .

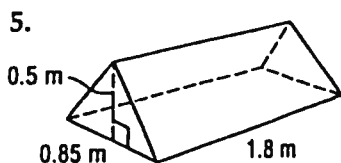
Calculate the volume of each prism.



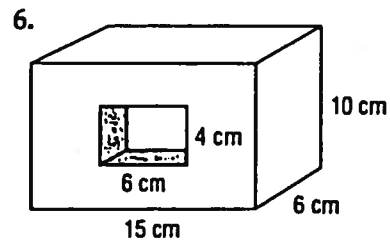


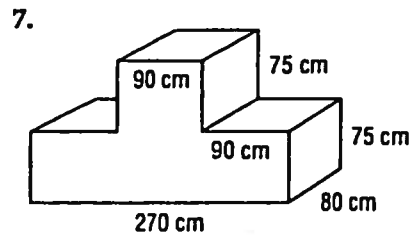


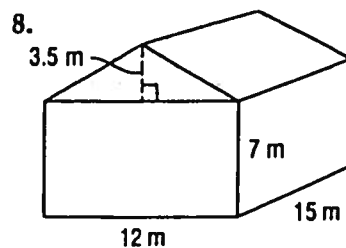




Find the volume.







9. a) An aquarium is filled to 3 cm from the top. How much water is in the aquarium if it is 75 cm long, 42 cm wide, and 48 cm high?

b) What is the total volume of the aquarium?
