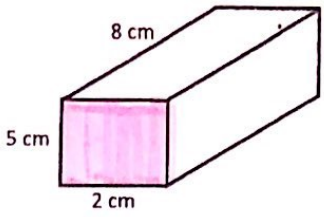
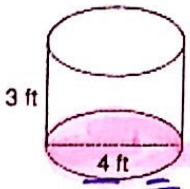
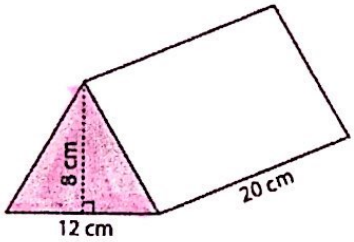
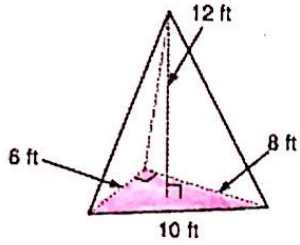
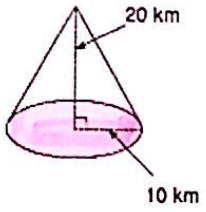
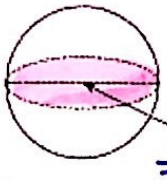
8.3 Guided Notes: Volume

3D Shape	Formula	Example
Rectangular Prism $V = \text{area of base} \cdot \text{height of prism}$	$V = (5 \cdot 2) \cdot 8$ $V = 80\ cm^3$	
Cylinder $V = \pi r^2 \cdot \text{height}$	$V = \pi 2^2 \cdot 3$ $V = 37.70 ft^3$	 $\frac{4}{2} = 2 : r$
Triangular Prism $V = \frac{b \cdot h}{2} \cdot \text{height of prism}$	$V = \left(\frac{12 \cdot 8}{2}\right) \cdot 20$ $V = 960\ cm^3$	
Pyramid $V = \frac{\text{area of base} \cdot \text{height}}{3}$	$V = \frac{\left(\frac{6 \cdot 8}{2}\right) 12}{3}$ $V = 96\ ft^3$	
Cone $V = \frac{\pi r^2 \cdot \text{height}}{3}$	$V = \frac{\pi 10^2 \cdot 20}{3}$ $V = 2094.40\ km^3$	
Sphere $V = \frac{4}{3} \pi r^3$	$V = \frac{4}{3} \pi 4^3$ $V = 268.08\ cm^3$	 $\frac{8}{2} = 4 : r$