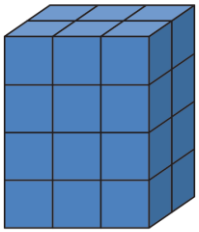
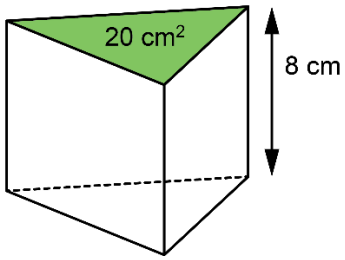
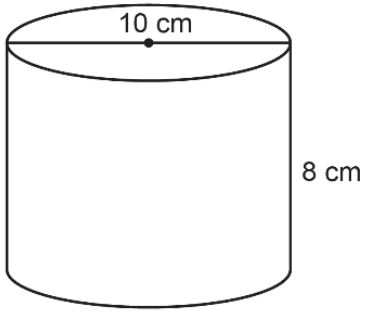
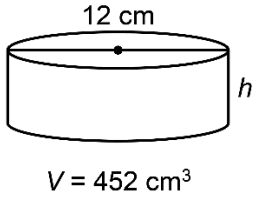
Measurement

Activity 12 Assessment

Determining the Volume of Prisms and Cylinders

Determining the Volume of Prisms and Cylinders

Understands that *volume* is a measure of the space filled by an object	Understands that the volume of a prism is the product of the area of its base and its height	Determines the volume of a cylinder	Determines the area of the base, volume, or height of a rectangular prism or cylinder when given two of the three measurements
 The volume of the prism is 24 unit cubes.	 Volume of the triangular prism is: $20 \times 8 = 160$ The volume is 160 cm^3.	 Base area of cylinder is: $\pi \times 5^2$ Height of cylinder is: 8 Volume of the cylinder is: $\pi \times 5^2 \times 8 = 628.318\ldots$ The volume is about 628 cm^3.	 $V = 452\ cm^3$ What is the approximate height of the cylinder? Volume: $V = \pi r^2 h$ $452 = \pi \times 6^2 \times h$ $452 = 113.09\ldots \times h$ $h \approx 452 \div 113$ $h \approx 4$ The height is about 4 cm.
Observations/Documentation			