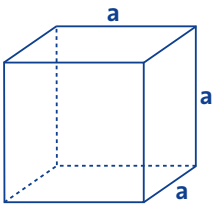
NAME .....

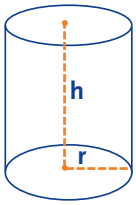
8 ACTIVITY

Volume Formulas

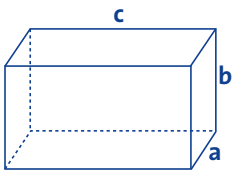
For approximate value, use 3.14 to represent π. Round all answers to the nearest hundredth.



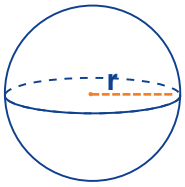
Cube: $V = a^2$



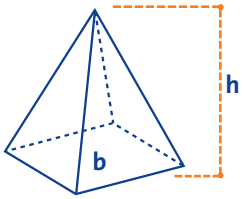
Cylinder: $V = Bh = \pi r^2 h$



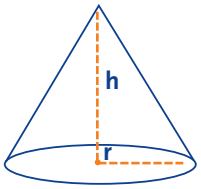
Rectangle prism (box): $V = a \cdot b \cdot c$



Sphere: $V = \frac{4}{3}\pi r^3$



Pyramid: $V = \frac{1}{3}Bh$



Cone: $V = \frac{1}{3}Bh = \frac{1}{3}\pi r^2 h$

Information taken from www.math.com

PRACTICE PROBLEMS

Calculate the volume of the following shapes.

1. A sphere with a radius equal to 5 inches.

2. A box with dimensions of 3 cm by 2 cm by 5 cm.

3. A cylinder with radius equal to 4 inches and a height of 10 inches.

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