

## Geometry – Measurements of Three-Dimensional Figures

### 16c Homework: Volumes of Pyramids & Cones

#### \*Power HW Format

1. Determine the volume of a square pyramid that has a height of 7 inches and a base with a side length of 5 inches.
2. Determine the volume of a cone that has a height of 16 centimeters and a base with a radius of 10 centimeters. Express your answer in exact form and as an approximation rounded to the nearest hundredth.
3. Determine the volume of a hexagonal pyramid that has a height of 45 mm. and a base with an area of  $20 \text{ mm}^2$ .
4. A pentagonal prism has a base with an area of  $150 \text{ cm}^2$  and a volume of  $900 \text{ cm}^3$ . What is the height of the pyramid?
5. An ice cream shop uses a sugar cone that has a height of 4.5 inches and a base with a diameter of 2.5 inches. Determine the volume of this sugar cone. Express your answer as an approximation rounded to the nearest hundredth.

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