

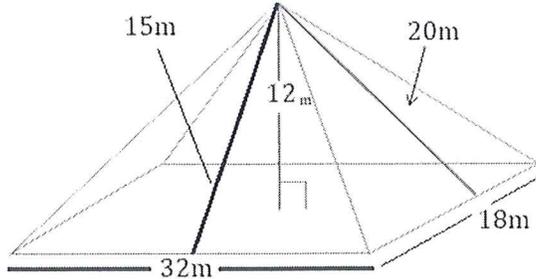
Name: Solutions only - You must show work! Hour: _____

Basic Surface Area and Volume of Pyramids

Homework

Find the volume and surface area of the solid. Round to the nearest thousandth if it states to round.

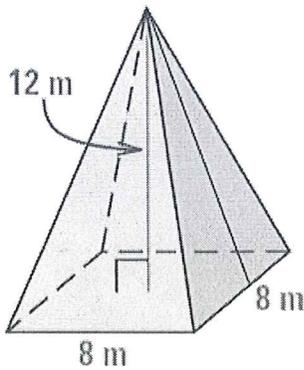
1.



$$SA = \frac{14116m^2}{\text{whole}}$$

$$V = \frac{2304m^3}{\text{whole}}$$

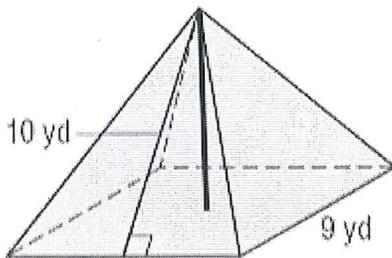
2.



$$SA = \frac{266.386m^2}{\text{Rounded}}$$

$$V = \frac{256m^3}{\text{whole}}$$

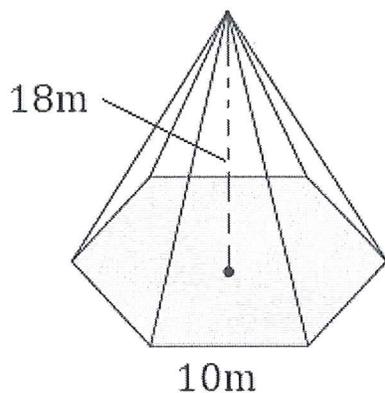
3.



$$SA = \frac{261yd^2}{\text{whole}}$$

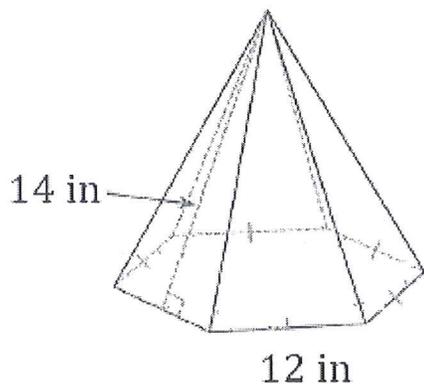
$$V = \frac{241.118yd^3}{\text{Rounded}}$$

4. Find the volume. Assume the base is a regular polygon.



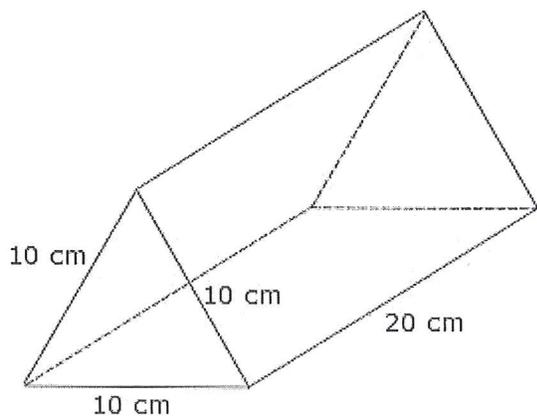
$$V = \frac{900\sqrt{3}m^3}{\text{Exact}}$$

5. Find the surface area. Assume the base is a regular polygon.



$$SA = \frac{504 + 216\sqrt{3}in^2}{\text{Exact}}$$

7. Review: Find the surface area and volume of the prism.



$$SA = \frac{600 + 50\sqrt{3}cm^2}{\text{Exact}}$$

$$V = \frac{500\sqrt{3}cm^3}{\text{Exact}}$$