

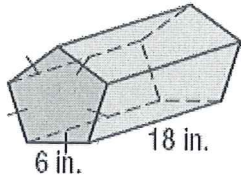
Name: Key

Hour: _____

Interesting Bases: Surface Area and Volume of Prisms and Prisms- HW

Directions: Find the volume, and surface area of the solid, round to the nearest tenth if needed.

1.

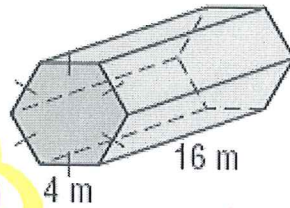


$$r = 5.1 \text{ in}$$

$$SA = 66.37 \text{ in}^2$$

$$V = 1113.2 \text{ in}^3$$

2.



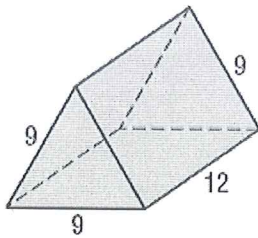
$$r = 4 \text{ m}$$

$$SA = 467.1 \text{ m}^2$$

$$V = 665.1 \text{ m}^3$$

Students must show all work to earn their credit.

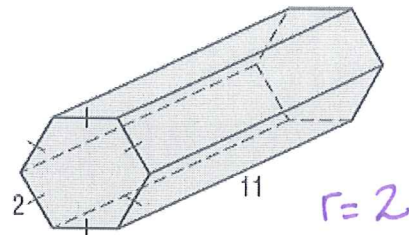
3.



$$SA = 394.1 \text{ units}^2$$

$$V = 420.9 \text{ units}^3$$

4.

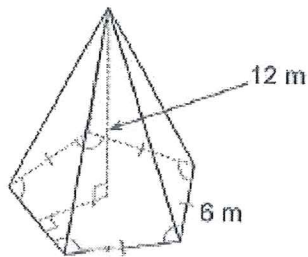


$$SA = 152.8 \text{ units}^2$$

$$V \approx 114.3 \text{ units}^3$$

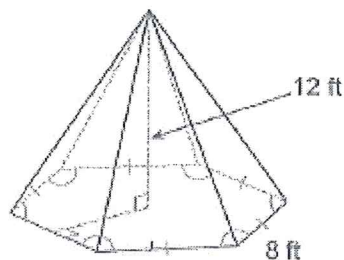
Directions: Find the volume. Round to the nearest tenth if needed.

5.



$$r = 6 \text{ m}$$
$$V = 247.4 \text{ m}^3$$

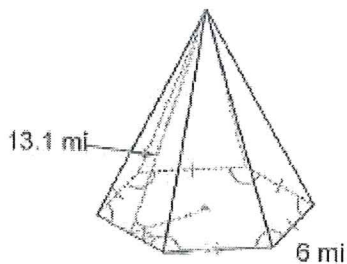
6.



$$r = 8 \text{ ft}$$
$$V = 665.1 \text{ ft}^3$$

Directions: Find the surface area. Round to the nearest tenth if needed.

7.



$$r = 6 \text{ mi}$$
$$SA = 329.3 \text{ mi}^2$$

8.



$$r = 8.5 \text{ in}$$
$$SA = 416.8 \text{ in}^2$$