

Name:

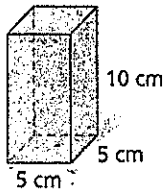
key (answers)

Date:

Period:

HW #11-7

1. Find the lateral area and the surface area of the right rectangular prism. Exact answers.

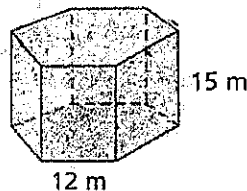


$$LA = 200 \text{ cm}^2$$

$$SA = 250 \text{ cm}^2$$

*assuming the
5x5 is the
base

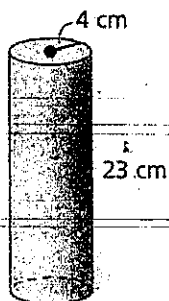
2. Find the lateral area and the surface area of the right hexagonal prism. Round to two decimal places for each.



$$LA = 1080 \text{ m}^2$$

$$SA \approx 1828.2 \text{ m}^2$$

3. Find the lateral area and the surface area of the right cylinder. Exact answers.



$$LA = 184\pi \text{ cm}^2$$

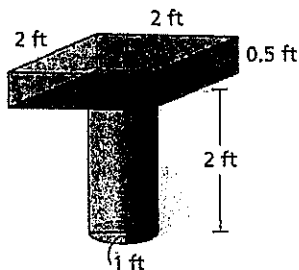
$$SA = 216\pi \text{ cm}^2$$

4. Find the lateral area and the surface area of a right cylinder with base circumference of 16π yd and a height equal to 3 times the radius. Exact answers.

$$LA = 384\pi \text{ yd}^2$$

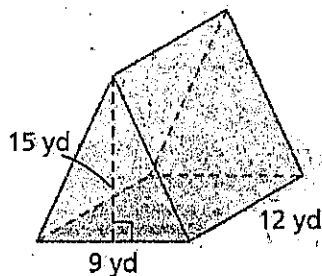
$$SA = 512\pi \text{ yd}^2$$

5. Find the surface area of the composite figure. Round to two decimal places.



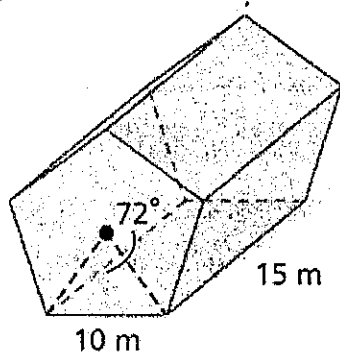
$$18.3 \text{ ft}^2$$

6. Find the volume of the triangular prism. Exact answer.



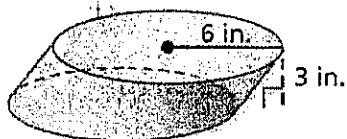
$$V = 810 \text{ yd}^3$$

7. Find the volume of the pentagonal prism. Round to two decimal places.



$$V \approx 2580.7 \text{ m}^3$$

8. Find the volume of the cylinder. Exact answer.

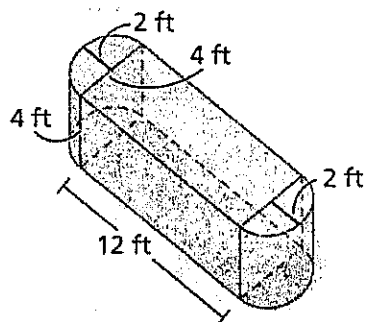


$$V = 108\pi \text{ in}^3$$

9. Find the volume of a cylinder with base area $24\pi \text{ cm}^2$ and height 16 cm. Exact answer.

$$V = 384\pi \text{ cm}^3$$

10. Find the volume of the composite figure. Round to two decimal places.



$$V \approx 242.3 \text{ ft}^3$$