

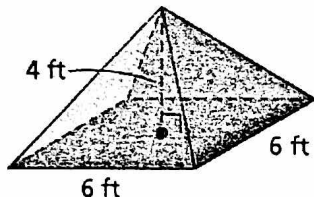
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HW #11-8

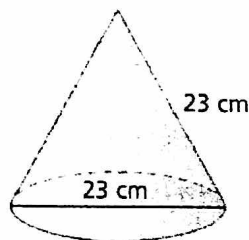
1. Find the lateral area and the surface area of the (regular) square pyramid. Exact answer.



$$LA = 60 \text{ ft}^2$$

$$SA = 96 \text{ ft}^2$$

2. Find the lateral area and the surface area of the right cone. Exact answer.



$$LA = \frac{529\pi}{2} \text{ cm}^2$$

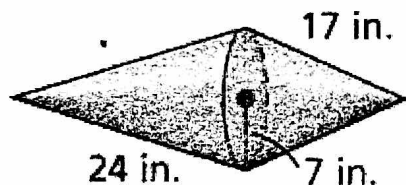
$$SA = \frac{1587\pi}{4} \text{ cm}^2$$

3. Find the lateral area and the surface area of a right cone with radius 8 m and height is 1 m less than twice the radius. Exact answer.

$$LA = 136\pi \text{ m}^2$$

$$SA = 200\pi \text{ m}^2$$

4. Find the surface area of the composite figure. Exact answer.



$$287\pi \text{ in}^2$$

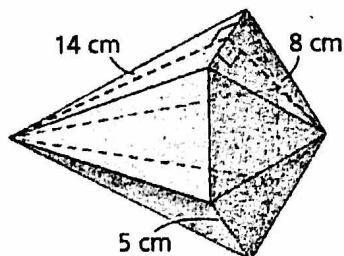
5. Find the surface area of the (regular) square pyramid with base area 36 cm^2 and slant height 5 cm. Exact answer.

$$96 \text{ cm}^2$$

6. Find the surface area of the right cone with base area $16\pi \text{ in}^2$ and slant height 7 in. Exact answer.

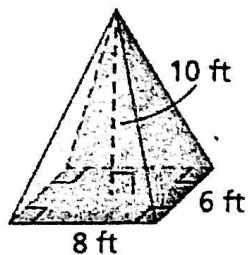
$$44\pi \text{ in}^2$$

7. Find the surface area of the composite figure. Exact answer.



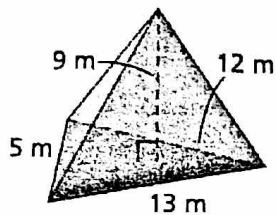
$$330 \text{ cm}^2$$

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



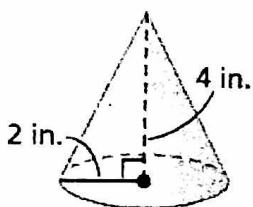
$$160 \text{ ft}^3$$

9. Find the volume of the pyramid. Exact answer.



$$90 \text{ m}^3$$

10. Find the volume of the cone. Exact answer.

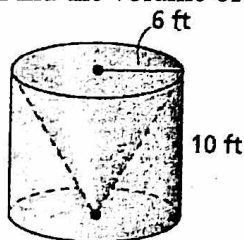


$$\frac{16\pi}{3} \text{ in}^3$$

11. Find the volume of a cone with base area $36\pi \text{ ft}^2$ and height equal to two times the radius. Exact answer.

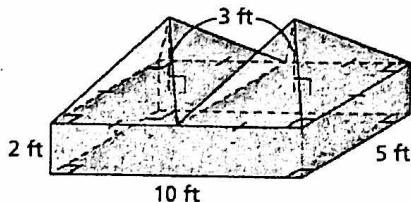
$$144\pi \text{ ft}^3$$

12. Find the volume of the composite figure. (cone is hollow inside the cylinder). Exact answer.



$$240\pi \text{ ft}^3$$

13. Find the volume of the composite figure. Exact answer.



$$150 \text{ ft}^3$$

14. Find the volume of the right cone with diameter 5 m and height 2 m. Round to two decimal places.

$$\approx 13.09 \text{ m}^3$$

15. Find the volume of the right cone with diameter 24 cm and slant height 13 cm. Exact answer.

$$240\pi \text{ cm}^3$$