

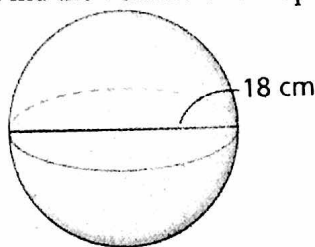
Name: key

Date:

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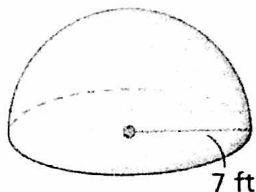
HW #11-11

1. Find the volume of the sphere. Exact answer.



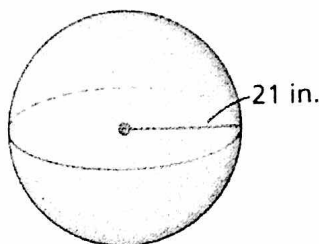
$$972\pi \text{ cm}^3$$

2. Find the volume of the hemisphere. Exact answer.



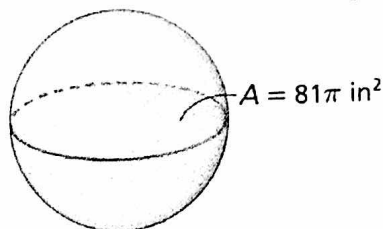
$$\frac{686\pi}{3} \text{ ft}^3$$

3. Find the surface area of the sphere. Exact answer.



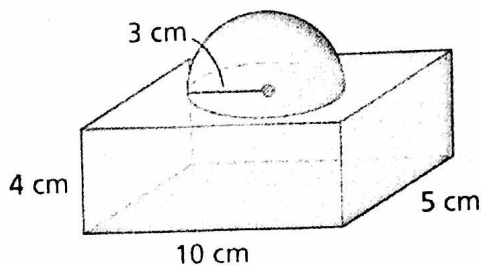
$$1764\pi \text{ in}^2$$

4. Find the surface area of the sphere. Exact answer.



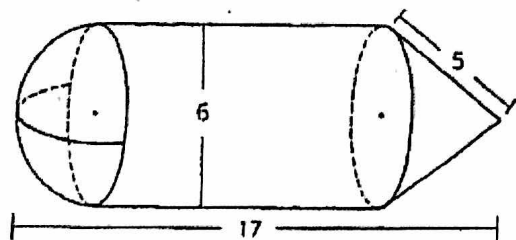
$$324\pi \text{ in}^2$$

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



$$248.27 \text{ cm}^2$$

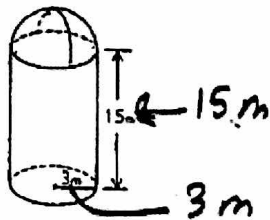
6. Find the surface area and volume of the solid. Exact answers.



$$\text{Vol} = 138\pi$$

$$\text{SA} = 93\pi$$

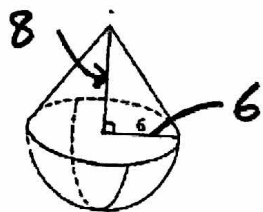
7. Find the surface area and volume of the solid. Exact answers.



$$Vol = 153\pi m^3$$

$$SA = 117\pi m^2$$

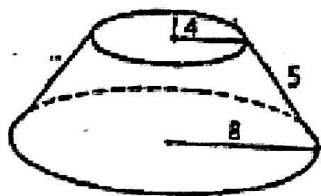
8. Find the volume and surface area of the solid.



$$Vol = 240\pi$$

$$SA = 132\pi$$

9. Find the volume and surface area of the frustum. (small radius is 4 and big radius is 8). Exact answers.



$$Vol = 112\pi$$

$$SA = 140\pi$$