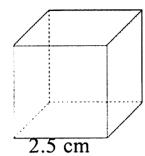
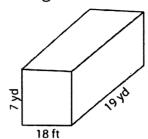
Find the Volume of the Following 3D Figures. Don't Forget Formula, Substitute, Solve

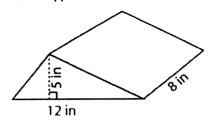
1. Cube



2. Rectangular Prism



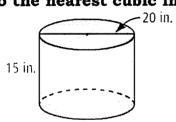
3. Triangular Prism



_____yd³

4. Cylinder

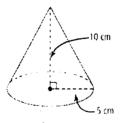
To the nearest cubic inch



$$V = \pi \cdot r^2 \cdot h$$

5. Cone

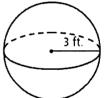
In terms of π



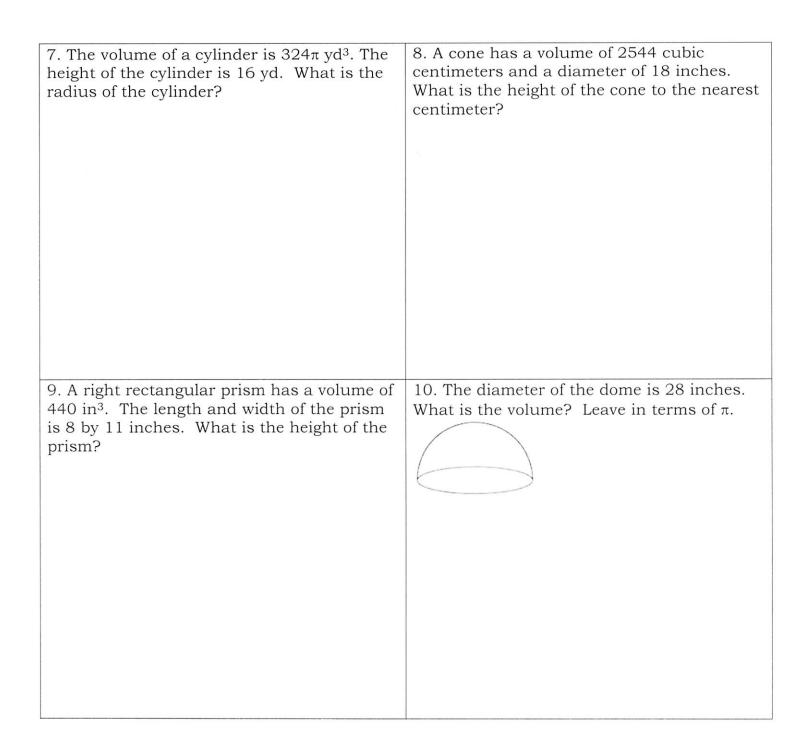
$$V = \frac{1}{3}\pi \bullet r^2 \bullet h$$

6. Sphere

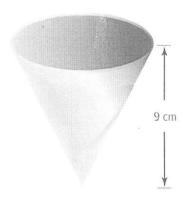
To the nearest tenth



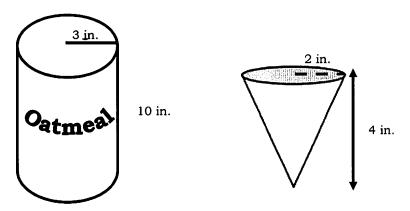
$$V = \frac{4}{3}\pi \cdot r^3$$



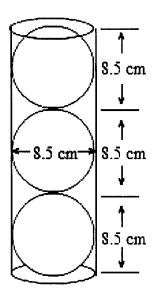
11. A shaved-ice vender wants a new cone to hold about 150 cm³ of shaved ice when filled to the brim. To the nearest centimeter, what should the radius of the cone be?



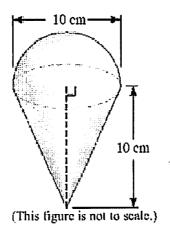
12. Ms. Clays Wants to fill her oatmeal container in the shape of a cylinder full of oatmeal. She has a cone shape scoop that she will use to fill the container. How many scoops will it take Ms. Clays to fill the entire cylinder of oatmeal?

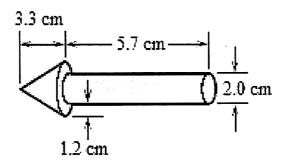


13. Three tennis balls are placed inside a container shaped as a cylinder. Determine the amount of space inside the container that is not taken up by the tennis balls to the nearest tenth.



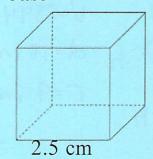
14. Find the Volume of the Composite Shapes to the nearest whole number.



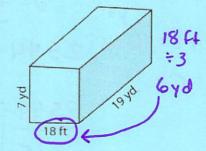


Find the Volume of the Following 3D Figures. Don't Forget Formula, Substitute, Solve

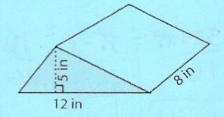
1. Cube



2. Rectangular Prism

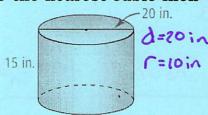


3. Triangular Prism



4. Cylinder

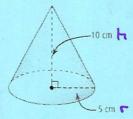
To the nearest cubic inch



$$V = \pi \bullet r^2 \bullet h$$

5. Cone

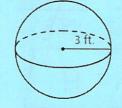
In terms of π



$$V = \frac{1}{3}\pi \cdot r^2 \cdot h$$

6. Sphere

To the nearest tenth



$$V = \frac{4}{3}\pi \cdot r^3$$

$$V = \frac{4}{3} \cdot \pi \cdot 3^3$$

7. The volume of a cylinder is 324π yd³. The height of the cylinder is 16 yd. What is the radius of the cylinder?

radius of the cylinder?

$$V = \pi \cdot \Gamma^{2} \cdot h$$

$$V = 324\pi$$

$$yd^{3}$$

$$324\pi = \pi \cdot \Gamma^{2} \cdot 16 \quad h = 16 \text{ yd}$$

$$16 \quad \Gamma = ?$$

$$20.25 = \Gamma^{2}$$

$$4.5 \text{ y.f.} \Gamma$$

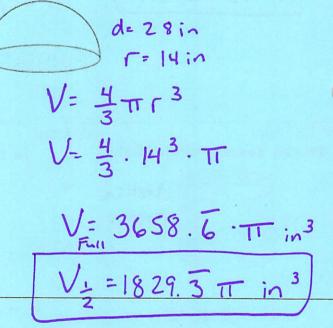
8. A cone has a volume of 2544 cubic centimeters and a diameter of 18 inches. What is the height of the cone to the nearest centimeter?

$$V = \frac{1}{3}\pi \Gamma^{2}h$$
 $V = 2544 cm^{3}$
 $2544 = \frac{1}{3} \cdot \pi \cdot 9^{2} \cdot h$ $d = 18 in$
 $2544 = \frac{1}{3} \cdot \pi \cdot 9^{2} \cdot h$ $C = 9 in$
 $27\pi = \frac{1}{27\pi}$
 $30in = \frac{1}{3}$

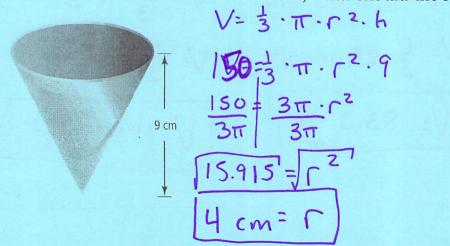
9. A right rectangular prism has a volume of 440 in³. The length and width of the prism is 8 by 11 inches. What is the height of the prism?

$$V = L \times W \times H$$
 $V = 440 \text{ in}^3$
 $440 = 8 \cdot 11 \cdot H$ $L = 8 \text{ in}$
 $446 = 88 \cdot H$ $W = 11 \text{ in}$
 $H = ?$
 $5 \text{ in} = H$

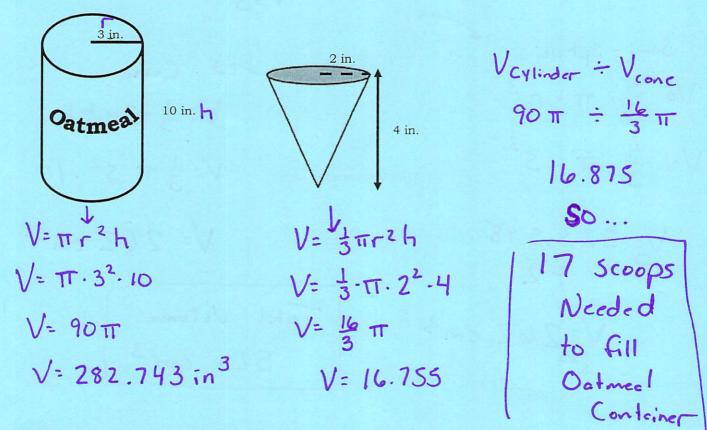
10. The diameter of the dome is 28 inches. What is the volume? Leave in terms of π .



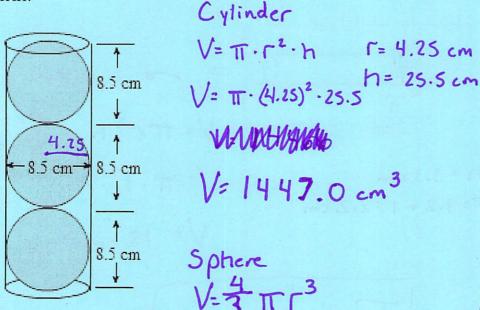
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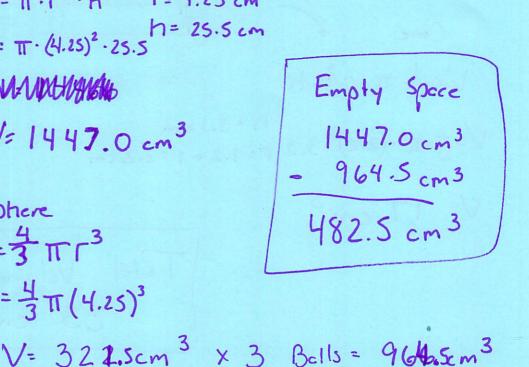
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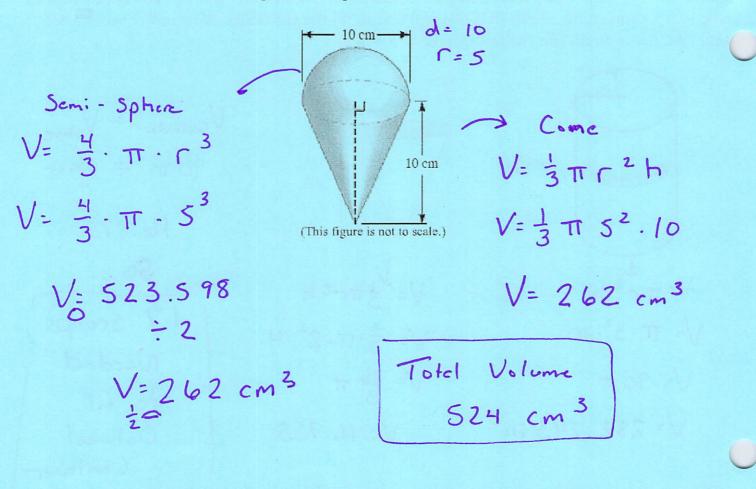
13. Three tennis balls are placed inside a container shaped as a cylinder. Determine the amount of space inside the container that is not taken up by the tennis balls to the nearest tenth.



V= \= \(\frac{1}{3}\Tr(4.25)^3\)



14. Find the Volume of the Composite Shapes to the nearest whole number.



Cone

Cone

$$V = \frac{1}{3} \cdot \pi \cdot r^{2} \cdot h$$

1.2 cm

 $V = \frac{1}{3} \cdot \pi \cdot (2.2)^{2} \cdot 3.3$
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