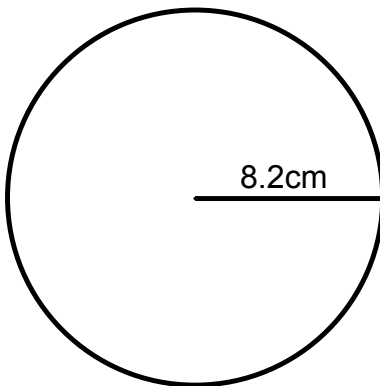


Warm up:

Find the circumference and area of the circle. Use 3.14 as an approximation for pi. Round to the nearest hundredth if necessary.

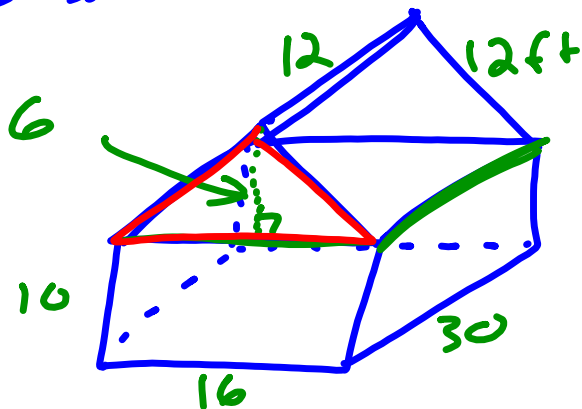


$$\begin{aligned}C &= 2\pi r \\ &= 2(3.14)(8.2) \\ &= 51.496 \\ &= 51.50\text{cm}\end{aligned}$$

$$\begin{aligned}A &= \pi r^2 \\ &= 3.14(8.2)^2 = 211.1336 \\ &= 211.13\text{cm}^2\end{aligned}$$

HW Solutions

① SA



$$\begin{aligned}
 16 \cdot 30 &= 480 \\
 10 \cdot 16 &= 160 \\
 &160 \\
 10 \cdot 30 &= 300 \\
 &300 \\
 \frac{1}{2} \cdot 16 \cdot 6 &= 48 \\
 &48 \\
 12 \cdot 30 &= 360 \\
 &360
 \end{aligned}$$

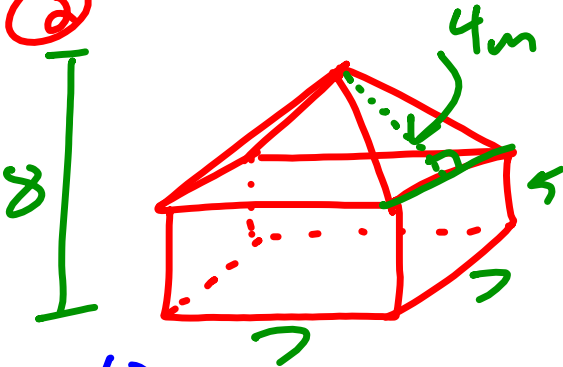
$$\checkmark 10 \cdot 16 \cdot 30 = 4800$$

$$\frac{1}{2} \cdot 16 \cdot 6 \cdot 30 = 1440$$

$$\textcircled{6240 \text{ ft}^3}$$

$$\textcircled{2216 \text{ ft}^3}$$

(2)



$$7 \cdot 7 \cdot 5 = 245$$

$$\frac{1}{3} \cdot 7 \cdot 7 \cdot 3 = 49$$

$$294 \text{ m}^3$$

$$7 \cdot 7 = 49$$

$$7 \cdot 5 = 35$$

$$35$$

$$35$$

$$35$$

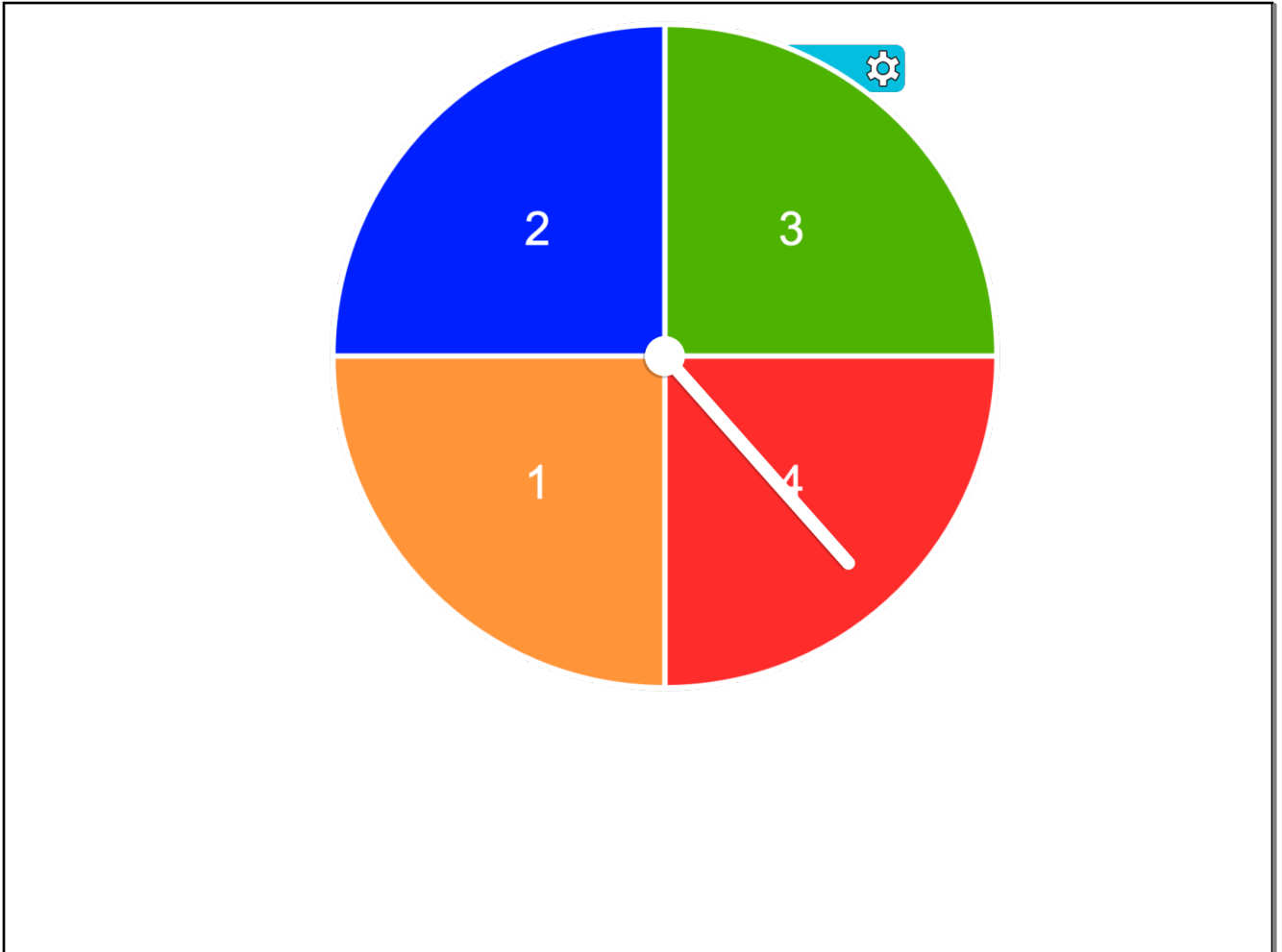
$$\frac{1}{3} \cdot 7 \cdot 4 = 14$$

$$14$$

$$14$$

$$14$$

$$245 \text{ m}^3$$

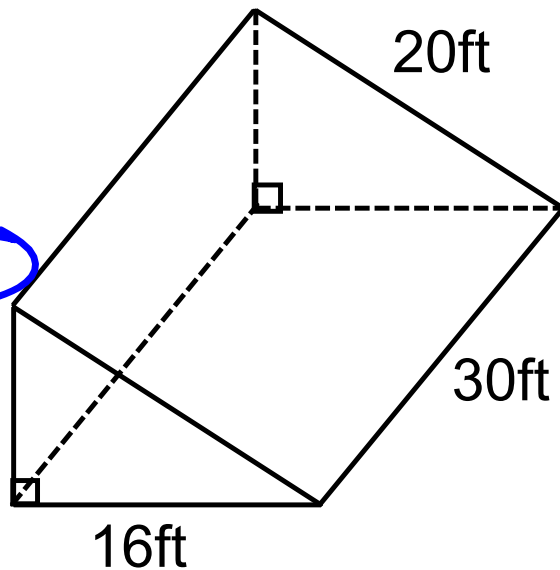


Find the surface area and volume.

SA) $\frac{1}{2} \cdot 12 \cdot 16 = 96$
 $12 \cdot 30 = 360$
 $16 \cdot 30 = 480$
 $20 \cdot 30 = 600$

1632 ft^2

V) $\frac{1}{2} \cdot 12 \cdot 16 \cdot 30$
 2880 ft^3



Find the surface area and volume.

$$3 \cdot 5.6 = \frac{16.8}{16.8}$$

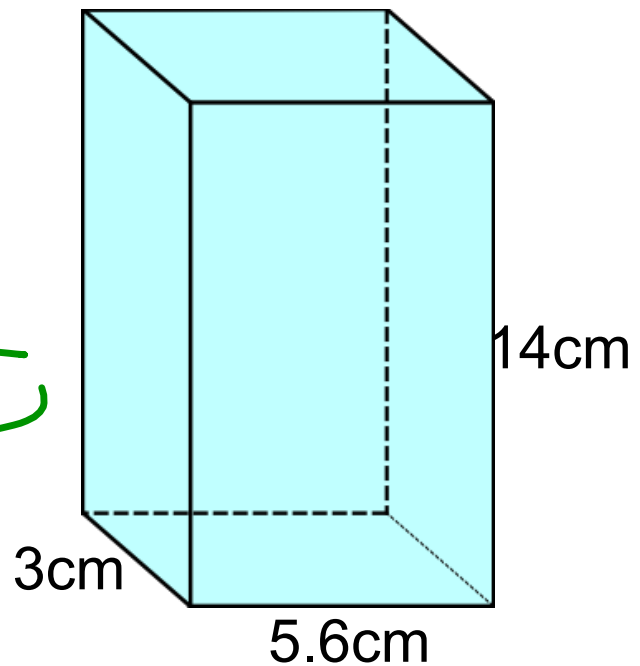
$$3 \cdot 14 = \frac{42}{42}$$

$$5.6 \cdot 14 = \frac{78.4}{78.4}$$

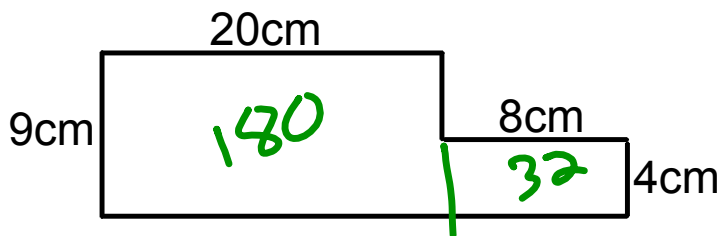
$$274.4 \text{ cm}^2$$

$$\checkmark 3 \cdot 5.6 \cdot 14$$

$$235.2 \text{ cm}^3$$



Find the area.



212cm²

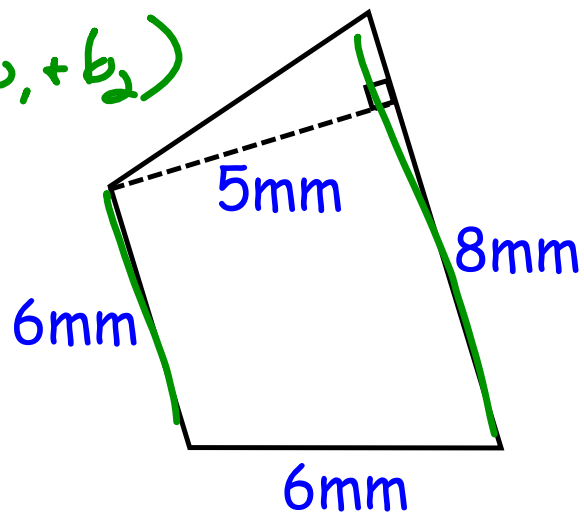
Find the area.

$$A(\text{trapezoid}) = \frac{1}{2} h (b_1 + b_2)$$

$$\frac{1}{2} (5)(8+6)$$

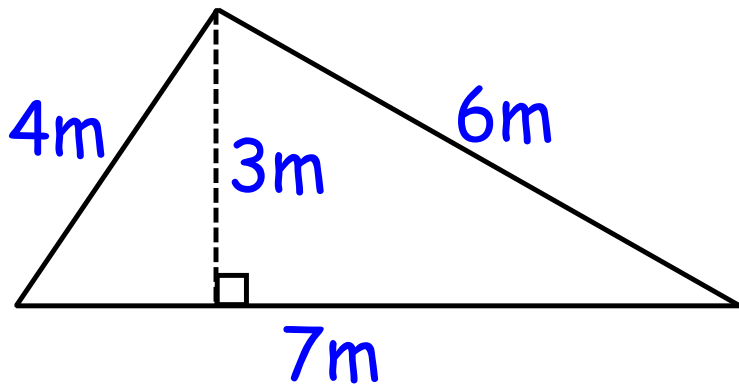
$$\frac{1}{2} (5)(14)$$

$$35 \text{ mm}^2$$



Find the area.

$$\frac{1}{2} \cdot 7 \cdot 3$$
$$10.5 \text{ m}^2$$



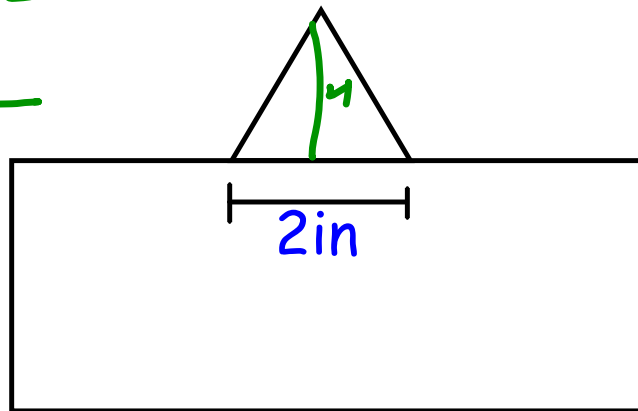
Find the area.

$$6 \cdot 18 = 108$$

$$\frac{1}{2} \cdot 2 \cdot 4 = 4$$

$$112 \text{ in}^2$$

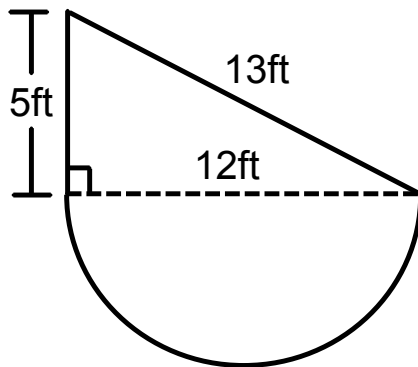
6in



18in

10in

Find the area.

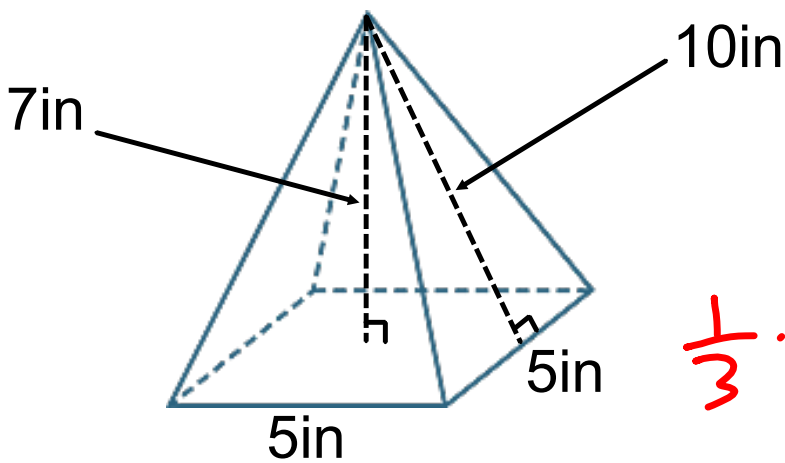


$$\frac{1}{2} \cdot 3.14(6)^2 = 56.52$$

$$\frac{1}{2} \cdot 12 \cdot 5 = 30$$

$$\underline{\underline{86.52}}$$

Find the surface area and volume.



$$5 \cdot 5 = 25$$

$$\frac{1}{2} \cdot 5 \cdot 10 = 25$$

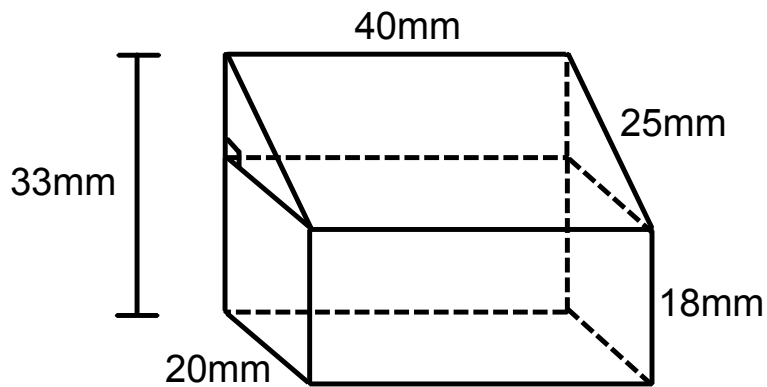
$$\times 4$$

$$125 \text{ in}^2$$

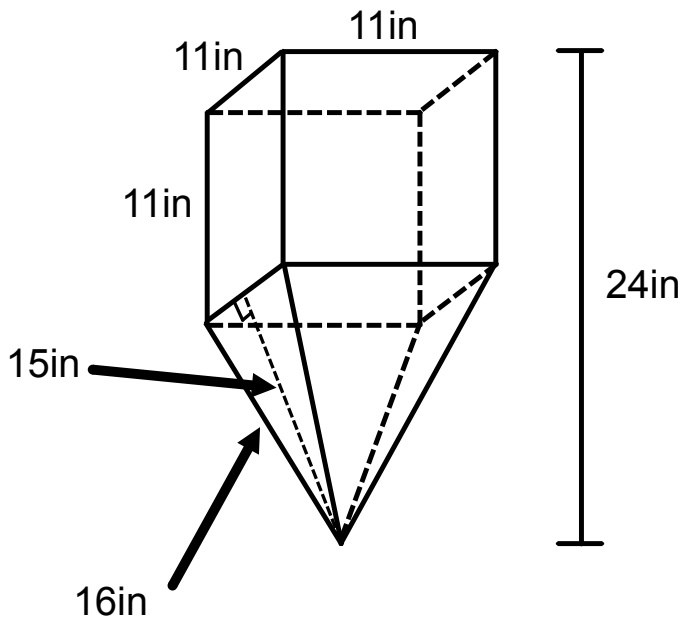
$$\frac{1}{3} \cdot 5 \cdot 5 \cdot 7 =$$

$$58.33 \text{ in}^3$$

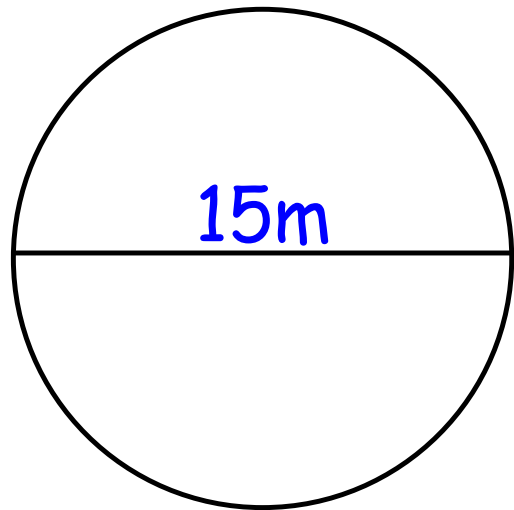
Find the surface area and volume.



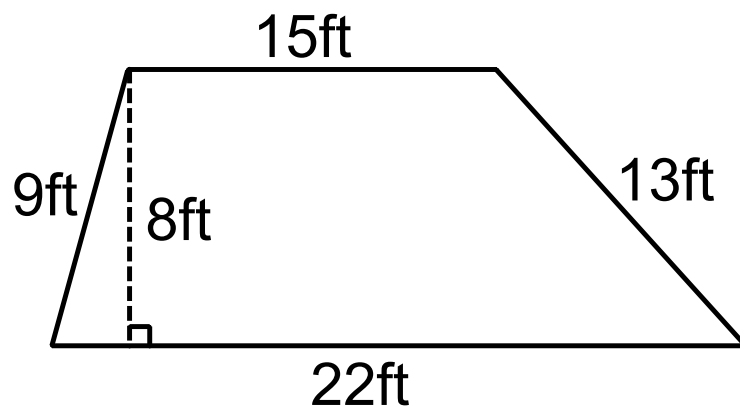
Find the surface area and volume.



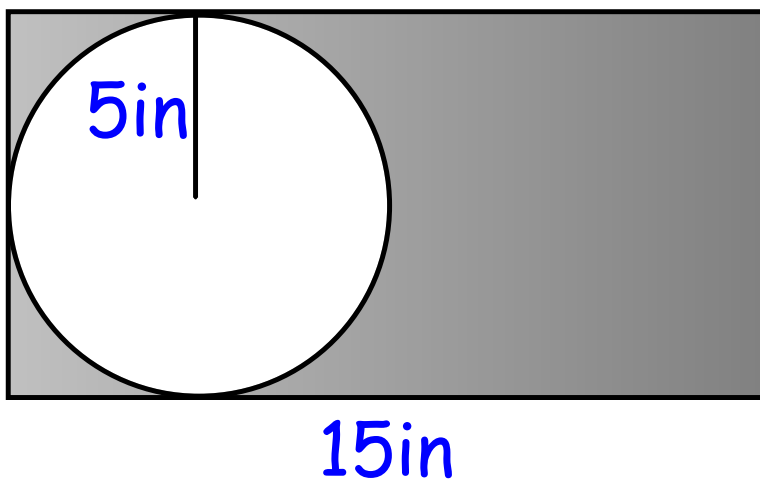
Find the circumference and area.



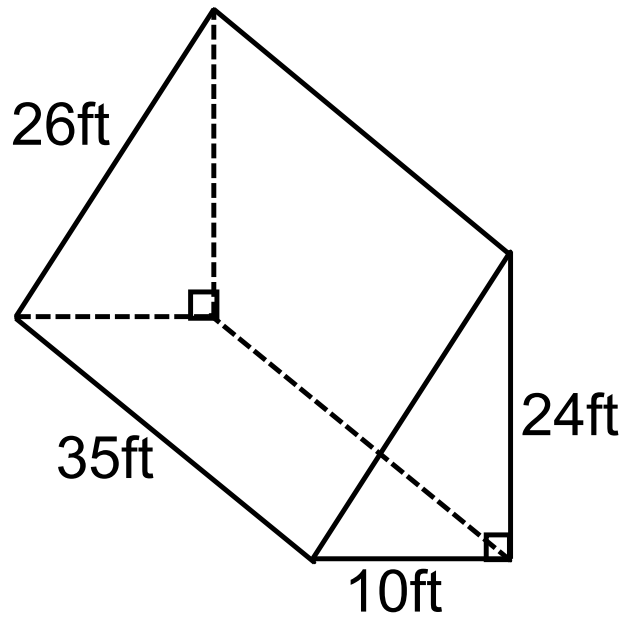
Find the area.



Find the area.



Find the surface area and volume.



Find the surface area and volume.

