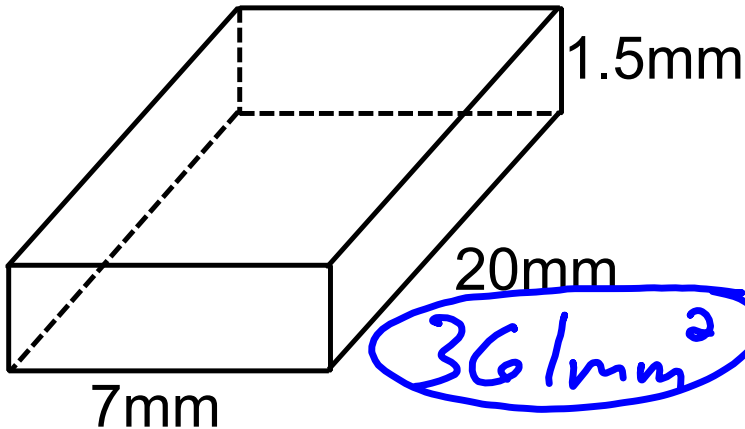


HW: Worksheet/11-13, 15, 17

**Warm up:**

1) Find the surface area.



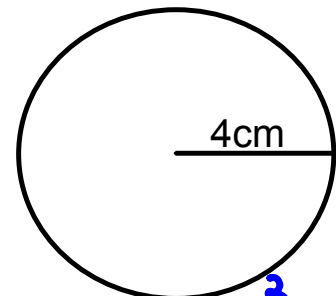
$36 \text{ mm}^2$

$$\begin{array}{r}
 7 \cdot 20 = 140 \\
 140 \\
 1.5 \cdot 20 = 30 \\
 30 \\
 1.5 \cdot 7 = 10.5 \\
 \underline{10.5}
 \end{array}$$

$$A = \pi r^2$$

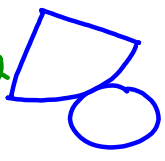
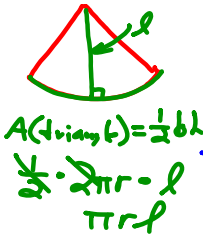
$$\pi \approx 3.14$$

2) Find the area.

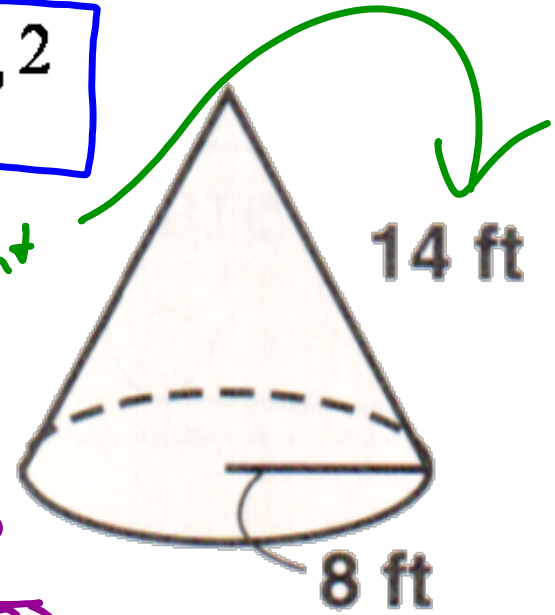


$$\begin{array}{r}
 3.14 (4)^2 \\
 \underline{50.24 \text{ cm}^2}
 \end{array}$$

$$S.A. = \pi r l + \pi r^2$$



slant height



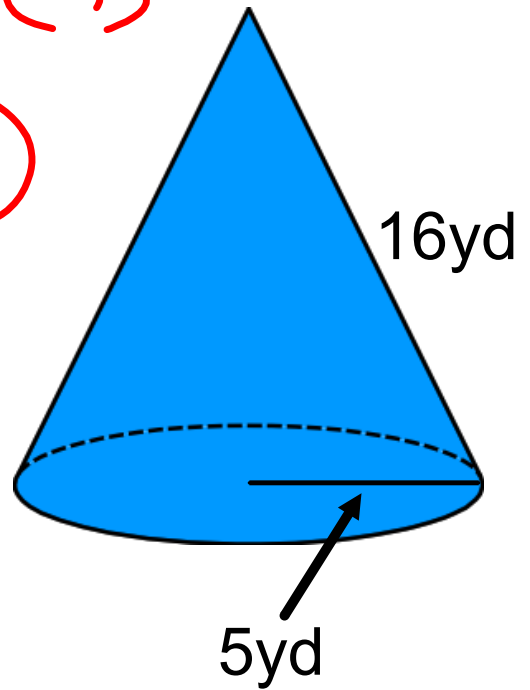
$$\pi r l + \pi r^2$$

$$3.14(8)(14) + 3.14(8)^2$$

$$552.64 \text{ ft}^2$$

$$3.14(5)(16) + 3.14(5)^2$$

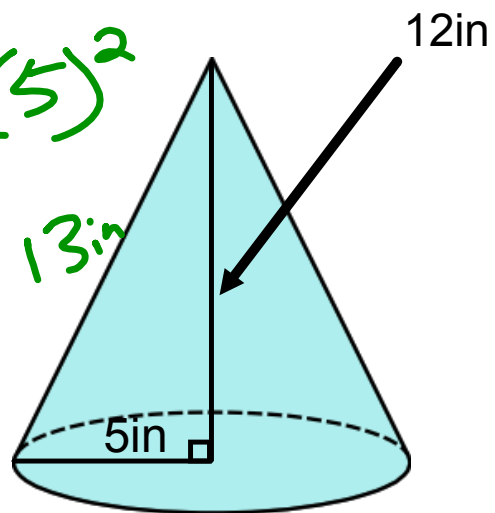
$$329.7 \text{ yd}^2$$



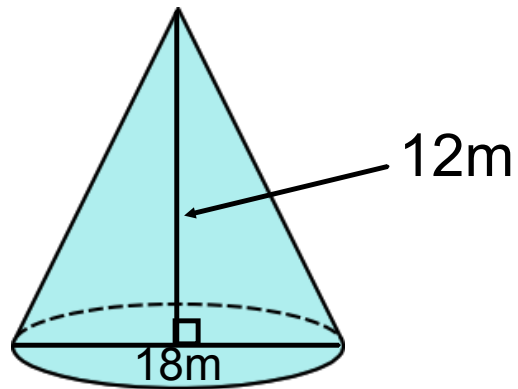
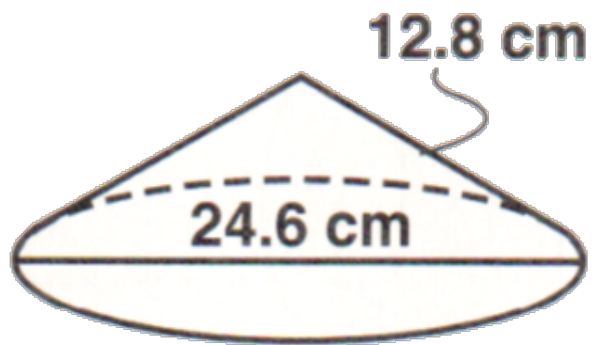
$$\pi r l + \pi r^2$$

$$3.14(5)(13) + 3.14(5)^2$$

$$282.6 \text{ in}^2$$

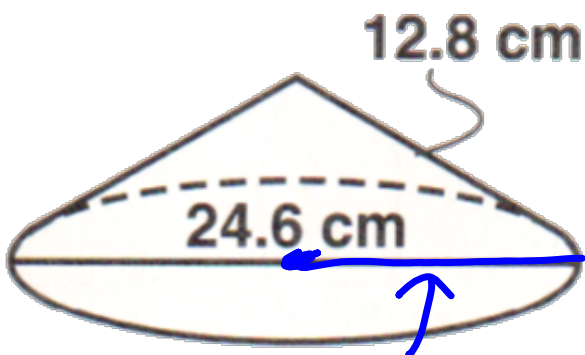


$$\begin{aligned} 5^2 + 12^2 &= c^2 \\ 25 + 144 & \\ \sqrt{169} &= \sqrt{c^2} \\ 13 &= c \end{aligned}$$



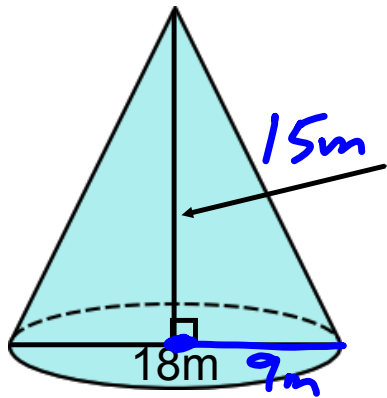


$$3.14(4.2)(10.6) + 3.14(4.2)^2$$
$$195.1824$$
$$195.18 \text{ ft}^2$$



$$24.6 \div 2 = 12.3$$

$$\pi r l + \pi r^2$$
$$3.14(12.3)(12.8) + 3.14(12.3)^2$$
$$969.41 \text{ cm}^2$$



$$9^2 + 12^2 = c^2$$

$$81 + 144$$

$$\sqrt{225} = \sqrt{c^2}$$

$$15 = c$$

$$3.14(9)(15) + 3.14(9)^2$$

$$678.24m^2$$



