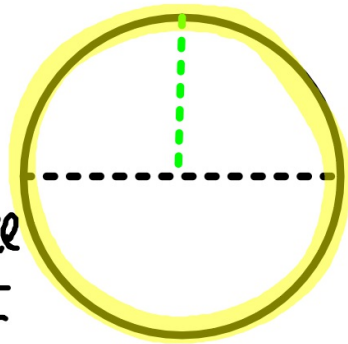


Circles

$$\pi : \text{Pi}$$

$$\pi = \frac{\text{circumference}}{\text{diameter}}$$

$$C = \pi d \\ = 2\pi r$$



Circumference

diameter

$$d = 2r \\ r = \frac{1}{2}d$$

$$\pi \rightarrow \pi$$

Use 3.14
for π

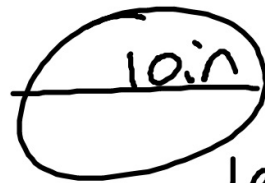
$$3.14(10 \text{ in})$$

$$\textcircled{31.4 \text{ in}}$$

$$3.14$$

$$\frac{22}{7}$$

$$\pi d$$



find C, ~~use~~ π
as π leave

$$C = \pi d \\ = \pi(10 \text{ in}) \\ = \textcircled{10\pi \text{ in}}$$

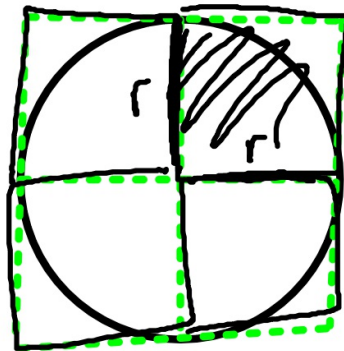


$\frac{22}{7}$ for π

$$\frac{22}{7} \left(\frac{14}{1} \right)^2 = 44\text{cm}$$

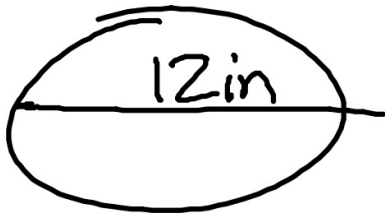
AREA of CIRCLE

$$\pi r^2$$



$\rightarrow r^2$

$$\begin{matrix} 2r^2 \\ 3r^2 \\ 4r^2 \end{matrix} \times \pi r^2$$



find A , leave
 π as π

$$A = \pi r^2$$

$$\pi 6^2$$

$$\pi 36 \text{ in}^2$$

$$36\pi \text{ in}^2$$



3.14 as π

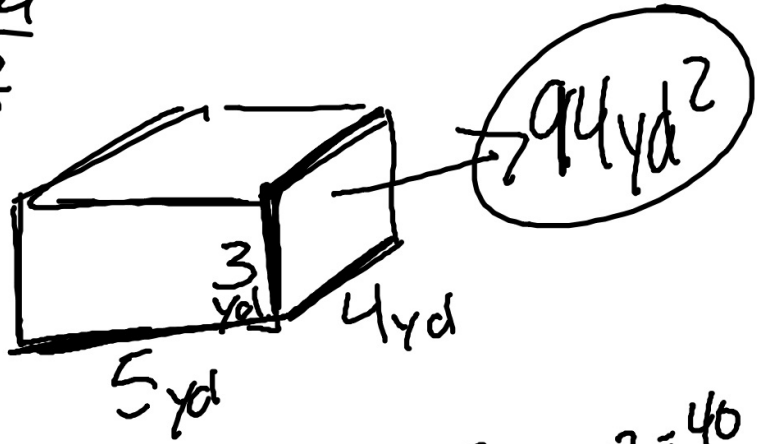
$$A = 3.14(2)^2$$

$$= 3.14(4)$$

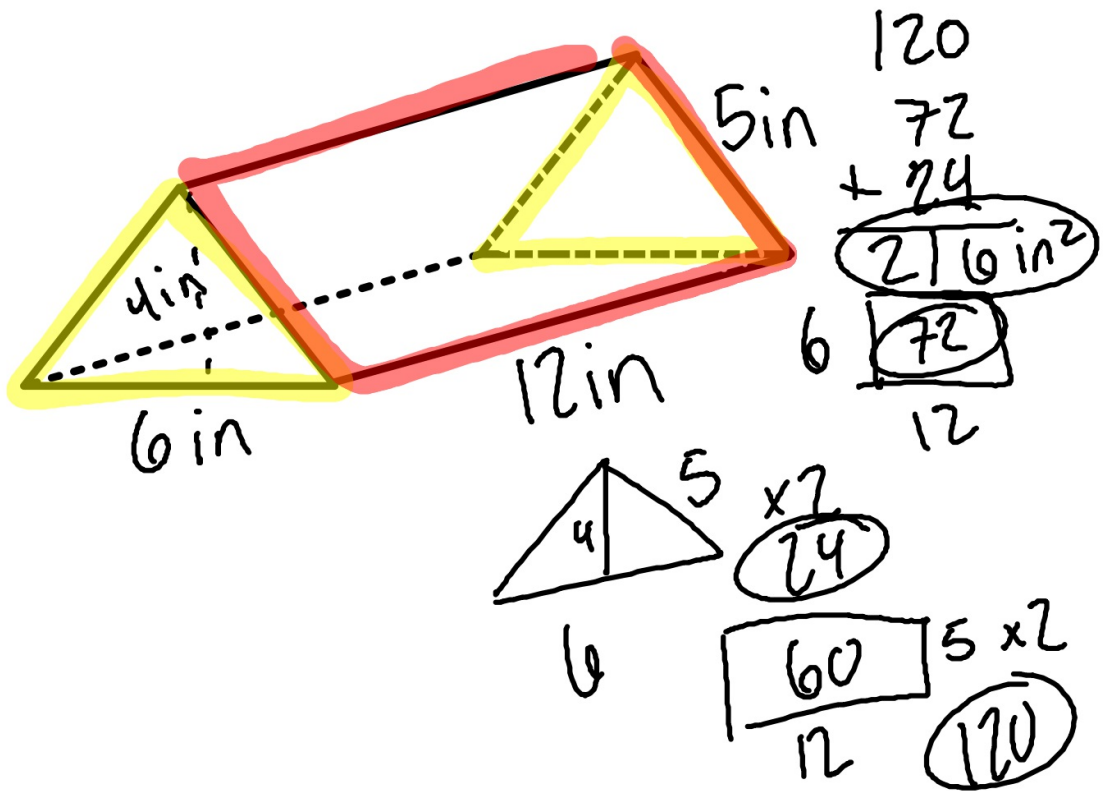
$$= 12.56 \text{ cm}^2$$

Surface Area

Combined area of all the faces



$$\begin{aligned}
 & 20 \text{ yd}^2 \quad 4 \text{ yd} \times 2 = 40 \\
 & \quad \quad \quad 5 \text{ yd} \\
 & 12 \text{ yd}^2 \quad \times 2 = 24 \\
 & \quad \quad \quad 3 \text{ yd} \quad 4 \text{ yd} \\
 & 15 \text{ yd} \quad 3 \text{ yd} \times 2 \\
 & \quad \quad \quad 5 \text{ yd} \quad 30
 \end{aligned}$$

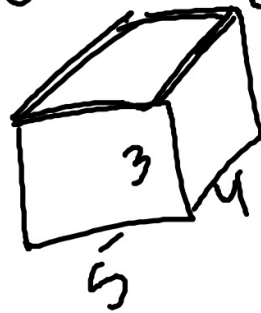


Lateral Surface Area

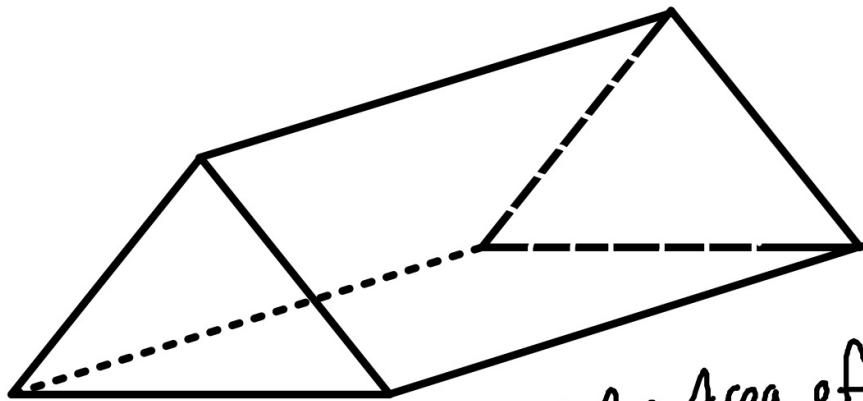
Combined areas of side faces

$$P \text{ of base} \times ht$$

face that repeats



$$SA = 94$$
$$LSA = 54$$



$$LSA : \text{Area of } \Delta \times ht$$

HW: L39 Pset a-e, h

L40 Pset a, b, #4, 5, 9-11, 13-21

L43 Pset a, b, d