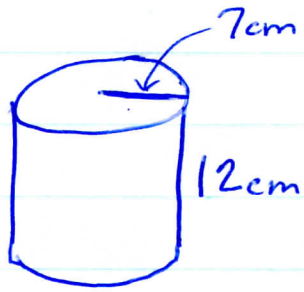
NOTES + Review

Volume

$$\boxed{V = B \cdot h}$$



$V = B \cdot h$

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

$V = (3.14)(7^2)12$

$\boxed{V = 1846.32 \text{ cm}^3}$

Surface Area

$\pi r^2 \longrightarrow 3.14(7^2) = 153.86$

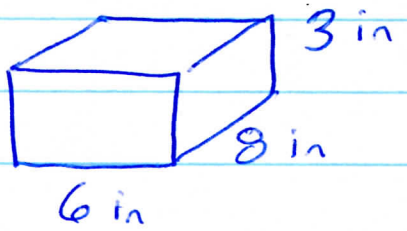
$\pi d h \longrightarrow 3.14(14)12 = 527.56$

lateral area

$\pi r^2 \longrightarrow 153.86$

$\boxed{835.24 \text{ cm}^2}$

Volume



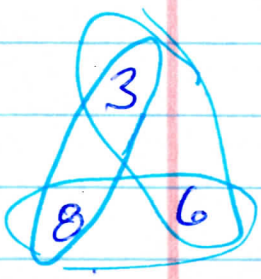
$V = B \cdot h$

$V = (l \cdot w) \cdot h$

$V = (6 \cdot 8) \cdot 3$

$\boxed{V = 144 \text{ in}^3}$

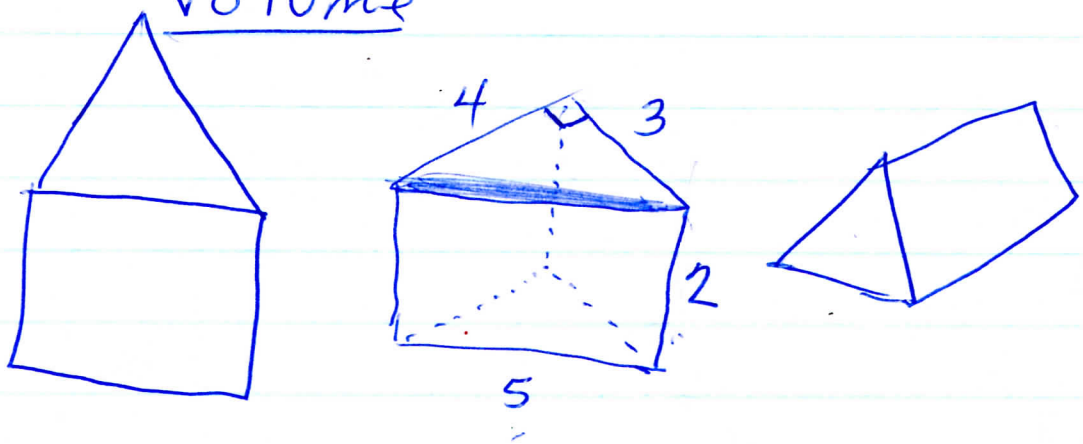
Surface Area



Rect 1	+ Rect 2	+ Rect 3
$l \cdot w$	$l \cdot w$	$l \cdot w$
$3 \cdot 8$	$8 \cdot 6$	$3 \cdot 6$
24 in^2	48 in^2	18 in^2
$\times 2$ faces	$\times 2$ faces	$\times 2$ faces
48 in^2	96 in^2	36 in^2

$\boxed{180 \text{ in}^2}$

Volume



$$V = B \cdot h$$

$$V = \left(\frac{bh}{2}\right) \cdot h$$

$$V = \left(\frac{3 \cdot 4}{2}\right) \cdot 2$$

$$V = 6 \cdot 2$$

$$\boxed{V = 12 \text{ units}^3}$$

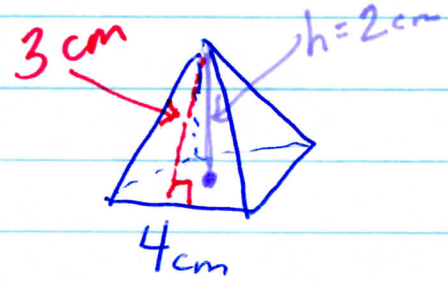
Surface Area

2Δ's	+ Rect 1	+ Rect 2	+ Rect 3
$\frac{bh}{2}$	$+ (l \cdot w)$	$+ (l \cdot w)$	$+ (l \cdot w)$
	$2 \cdot 3$	$2 \cdot 4$	$2 \cdot 5$
$\frac{3 \cdot 4}{2}$	6	8	10
6			
$\times$ 2 faces			
12			

$$\boxed{36 \text{ units}^2}$$

Volume (Pyramid/Cone)

$$V = \frac{1}{3}(B \cdot h)$$

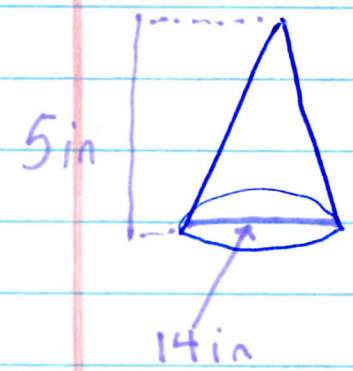


$$V = \frac{1}{3}(B \cdot h)$$ height of pyramid

$$V = \frac{1}{3}(\underline{l \cdot w} \cdot h)$$

$$V = \frac{1}{3}(4 \cdot 4 \cdot 2)$$

$$\boxed{V = 10.7 \text{ cm}^3}$$



$$V = \frac{1}{3}(B \cdot h)$$

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

$$V = \frac{1}{3}(3.14)7^2 \cdot 5$$

$$\boxed{V = 256.4 \text{ in}^3}$$

* U10 Reworks Due Mon
- textbook p.478 # 4-8
PRACTICE p.91 #1-6