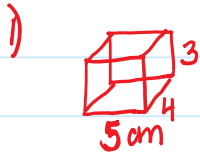


# U7L3 Surface Area of Prisms

June-01-15 10:02 AM

June 1, 2015

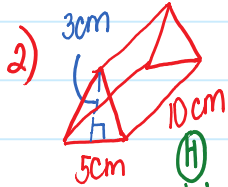
## A) Review



$$V = (L \times W) \times H$$

$$V = 5 \times 4 \times 3$$

$$V = \boxed{60} \text{ cm}^3 \checkmark$$



$$V = \left(\frac{b \times h}{2}\right) \times H$$

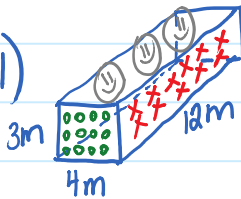
$$V = \left(\frac{5 \times 3}{2}\right) \times 10$$

$$V = \boxed{75} \text{ cm}^3 \checkmark$$

Ⓜ in between two triangles

## B) Surface Area :

Ex 1)

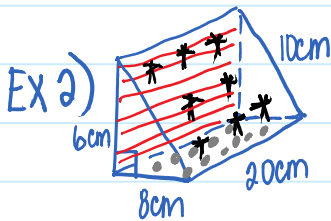


# sides = 6

3	$\boxed{000}$	3	$\boxed{\phantom{000}}$	3	$\boxed{xx}$	3	$\boxed{xx}$	12	$\boxed{\text{Ⓜ}}$	12	$\boxed{\phantom{000}}$
	4		4		12		12		4		4
$A = L \times W$	$A = \boxed{12}$	$A = L \times W$	$A = \boxed{36}$	$A = L \times W$	$A = \boxed{36}$	$A = L \times W$	$A = \boxed{48}$	$A = L \times W$	$A = \boxed{48}$		
$= 3 \times 4$		$= 3 \times 12$		$= 3 \times 12$		$= 4 \times 12$		$= 4 \times 12$			
$= \boxed{12}$		$= \boxed{36}$		$= \boxed{36}$		$= \boxed{48}$		$= \boxed{48}$			

SA = Add six sides

$$= \boxed{192 \text{ m}^2}$$



# sides = 5

6	$\boxed{\phantom{000}}$	6	$\boxed{\phantom{000}}$	20	$\boxed{***}$	6	$\boxed{\text{Ⓜ}}$	8	$\boxed{\dots}$
	8		8		20		20		20
$A = \frac{b \times h}{2}$	$A = \boxed{24}$	$A = L \times W$	$A = L \times W$	$A = L \times W$	$A = L \times W$	$A = L \times W$	$A = L \times W$	$A = L \times W$	$A = L \times W$
$= \frac{6 \times 8}{2}$		$= 10 \times 20$	$= 6 \times 20$	$= 8 \times 20$	$= 10 \times 20$	$= 6 \times 20$	$= 8 \times 20$	$= 8 \times 20$	$= 160$
$= \boxed{24}$		$= \boxed{200}$	$= \boxed{120}$	$= \boxed{160}$	$= \boxed{200}$	$= \boxed{120}$	$= \boxed{160}$	$= \boxed{160}$	$= \boxed{160}$

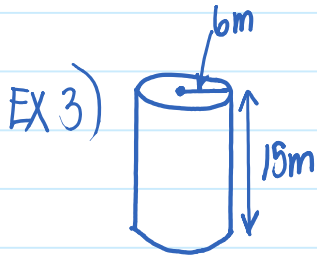
$$= \boxed{24}$$

$$= \boxed{200}$$

$$= \boxed{120}$$

$$= \boxed{160}$$

$$\text{SA} = \text{Add five sides} \\ = \boxed{528 \text{ cm}^2}$$



Formula: 
$$\text{SA} = 2\pi r^2 + 2\pi r h$$

(area of two circles) (area of wraparound rectangle)

$$\begin{aligned} &= (2)(3.14)(6)^2 + 2(3.14)(6)(15) \\ &= \underline{226.08} + \underline{565.2} \\ &= \boxed{791.3 \text{ m}^2} \checkmark \end{aligned}$$

if use  $\pi$  button  $\boxed{791.7 \text{ m}^2}$

Assignment:

U7L3 SA wkst: 1(A,G,F), 3(A,C,G,I), 4 1/9 = %