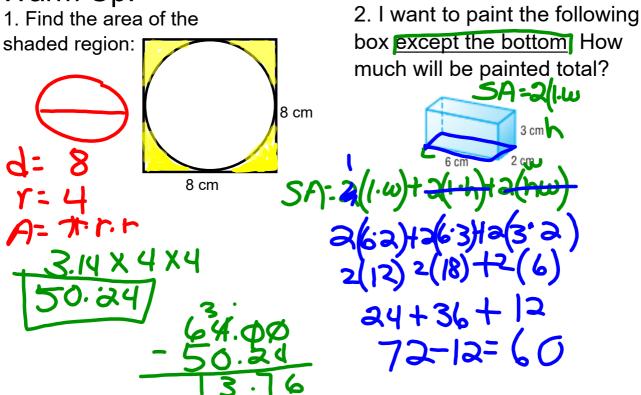
## You need out your Agenda, warm up & hw

### Homework: Surface Area Practice





(1) 
$$2(8x4)+2(8x11)+2(4x11)$$
  
 $64+176+88$   
 $328m^{2}$   
(2)  $220m^{2}$   
 $2(10x4)+2(10x5)+2(4x5)$   
 $2(10x4)+2(10x5)+2(4x5)$   
 $2(10x4)+100+41$ 

$$1(9x18) + 2(18x45) + 2(9x45)$$
 $162 + 2(18x45) + 2(9x45)$ 
 $162 + 310$ 

# SURFACE AREA OF A TRIANGULAR PRISM:

There are 2 types of triangular prisms:

>Right Triangular Prism

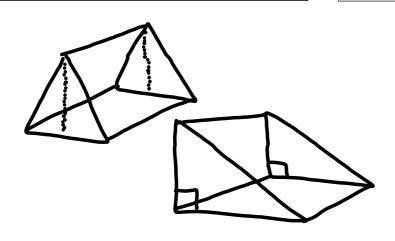


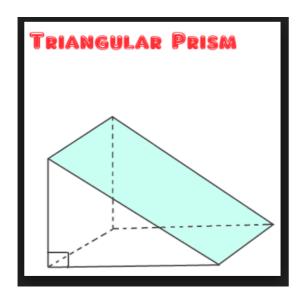
>Isosceles Triangular Prism (tent)

To find the surface area, we must find the area of all of the surfaces:

We know we always have:

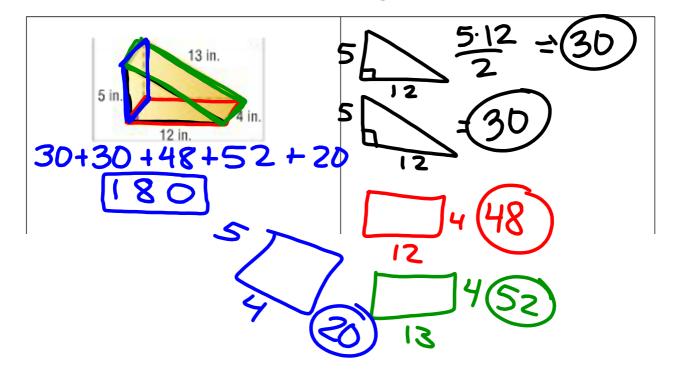
2 triangles  $A = \frac{bxh}{2} \& 3 \text{ rectangles } A = b x h$ 

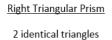




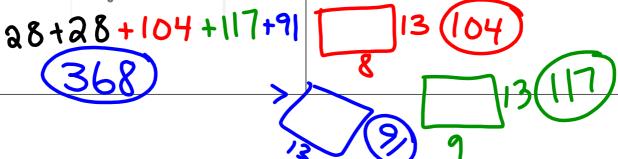
#### Right Triangular Prism

2 identical triangles 3 different rectangles

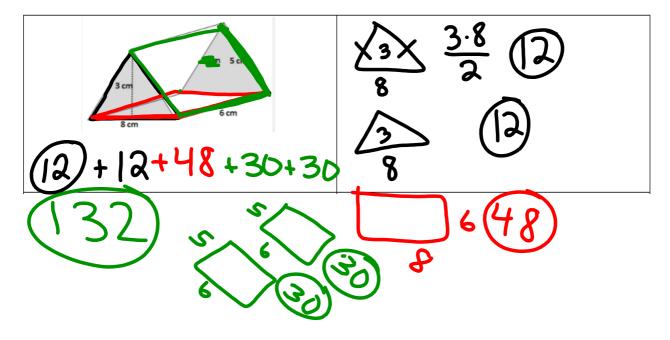


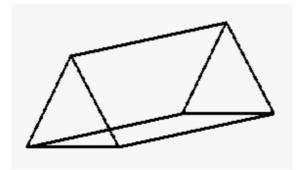


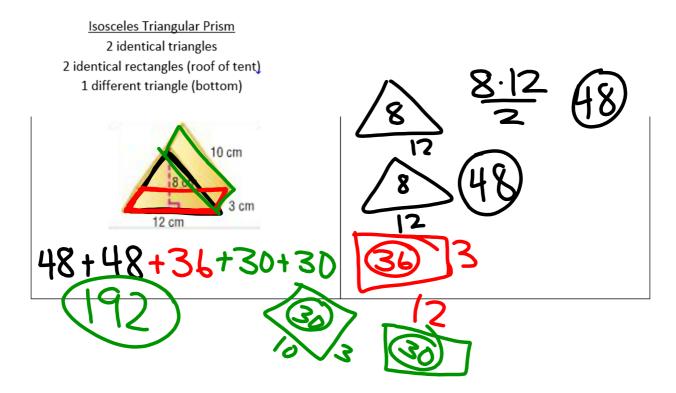
3 different rectangles  $\frac{7 \cdot 8}{2} = \underbrace{8}$   $\frac{13}{8} = \underbrace{8}$ 



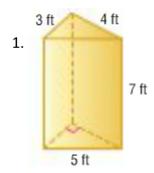
# Isosceles Triangular Prism 2 identical triangles 2 identical rectangles (roof of tent) 1 different triangle (bottom)

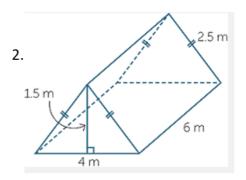


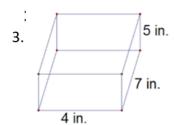




#### Surface Area of Prisms- Homework







Sit silently for the news