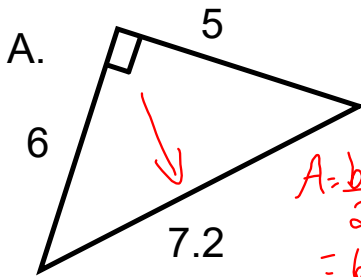


Warm-Up

November 21, 2017

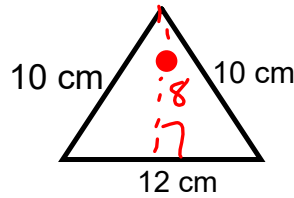
What is the area of the triangle?



$$A = \frac{bh}{2}$$

$$= \frac{6 \times 5}{2}$$

$$= 15$$



$$A = \frac{bh}{2}$$

$$= \frac{12 \times 8}{2}$$

$$= 48 \text{ cm}^2$$

$b^2 = c^2 - a^2$

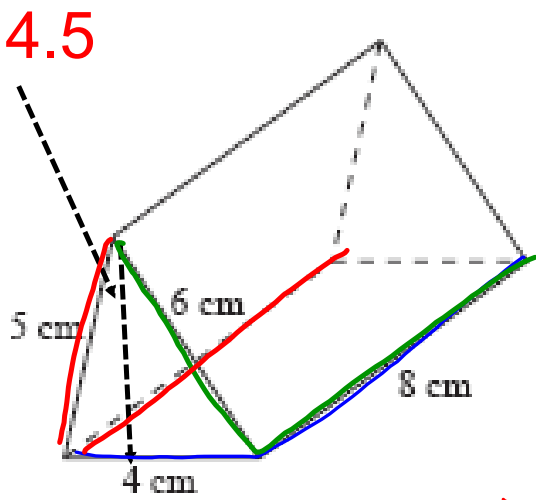
$c^2 = a^2 + b^2$

$$10^2 = 6^2 + b^2$$

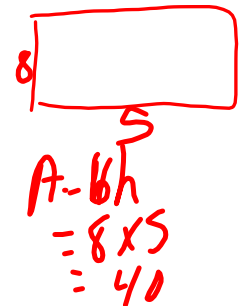
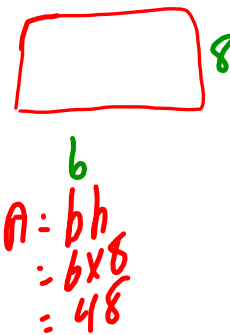
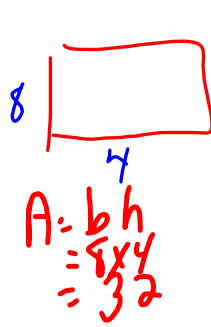
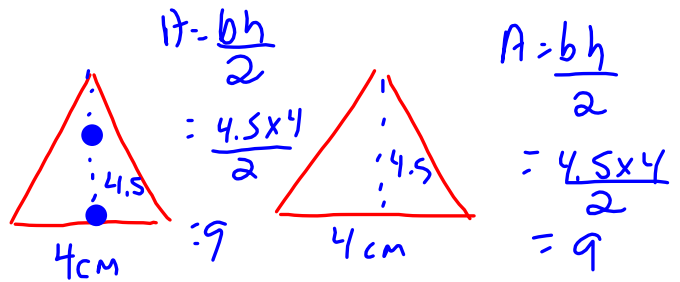
$$100 = 36 + b^2$$

$$\sqrt{b^2} = \sqrt{64}$$

$$b = 8$$



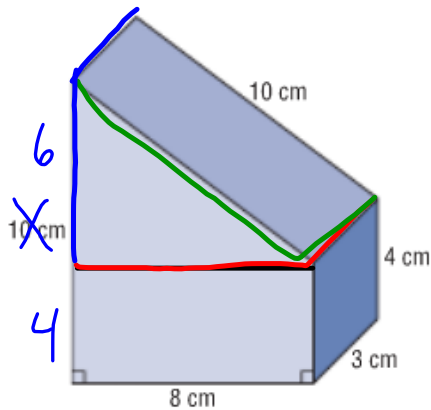
- Draw the faces
- Find the surface area



$$TSA = 9 + 9 + 32 + 48 + 40$$

$$138 \text{ cm}^2$$

Determine the surface area of this object.



Rectangular Prism

F/B	T/B	Sides
$\boxed{8 \times 4}$	$\boxed{8 \times 3}$	$\boxed{4 \times 3}$
8	8	3
$A = bh$	$A = bh$	$A = bh$
$= 8 \times 4$	$= 8 \times 3$	$= 4 \times 3$
$= 32$	$= 24$	$= 12$
$\times 2$	$\times 2$	$\times 2$
64	48	24
	+	
		136

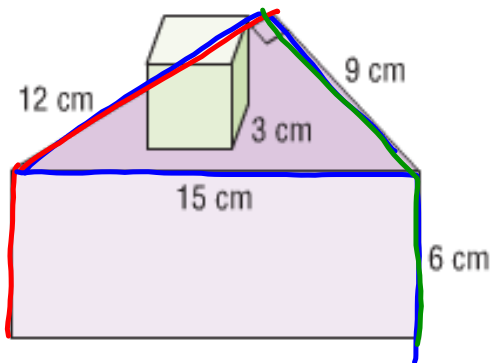
Triangular Prism

$A = \frac{bh}{2}$	$A = \frac{bh}{2}$	$A = bh$	$A = bh$	$A = bh$
$= \frac{8 \times 6}{2}$	$= \frac{8 \times 6}{2}$	$= 8 \times 3$	$= 10 \times 3$	$= 6 \times 3$
$= 24$	$= 24$	$= 24$	$= 30$	$= 18$
			120	

$$TSA = 136 + 120 - 48 = 208 \text{ cm}^2$$

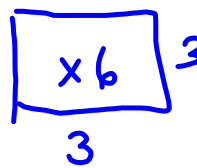
#3.

d) cube on a triangular prism



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SA Cube



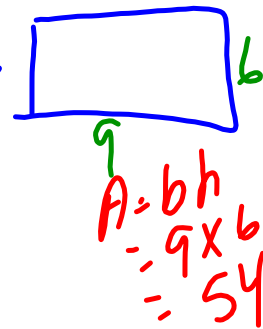
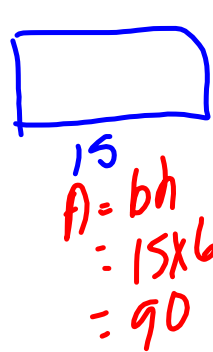
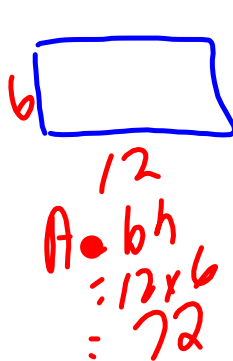
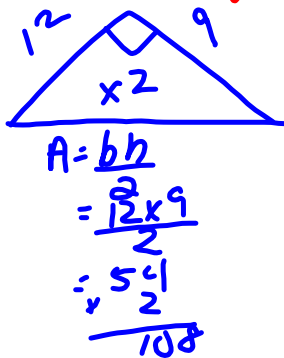
$$A = bh$$

$$= 3 \times 3$$

$$= 9$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$$

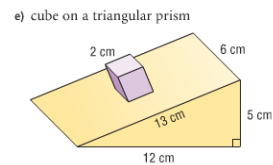
Surface Area Triangular Prism



$$108 + 72 + 90 + 54 + 54 = 378$$

$$\begin{array}{r} 378 \\ - 18 \\ \hline 360 \text{ cm}^2 \end{array}$$

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#3 d, e [256 cm²]

Worksheet #1 [351 cm²]

#2 [352 cm²]

Page 148 # 8 [a,b]

Attachments

page 40 answers.notebook