Warm Up... PSAT Feedback

- On a scale of 1-10 how helpful were the weekly PSAT practice problems?
 (1 no help... 10 extremely helpful)
 Explain why.
- 2. One recommendation for next year to help students better prepare for PSAT...

Learning Goal: Today I will learn how to find the area of a parallelogram and a triangle.

Success Criteria: I am able to identify the base and use it to find area.

Burrito Books

You will need:

- scissors
- 7 pieces of paper

Burrito Books

Add the following information to the cover:

Area and Volume

(Units 10 and 11)
Your name and period

Burrito Books

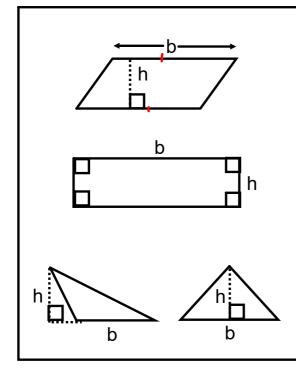
Label your inside pages from 1 - 25

	Table of Con	tents		
inside front cover (Blank)				
,	1		2	

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<u>Area</u>

Parallelograms and Triangles...... 2-3



Area of a Parallelogram

A = b * h

b - base length

h - height (perpendicular to base)

Area of a Rectangle

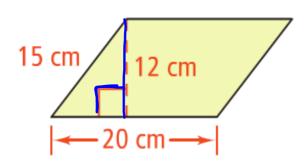
$$A = b * h$$

Area of a Triangle

$$A = \frac{b * h}{2}$$

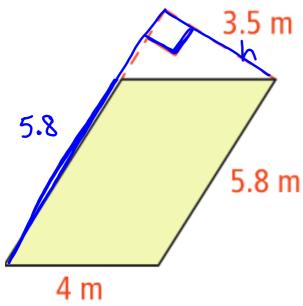
10-1 Area of Parallelograms and Triangles

Example



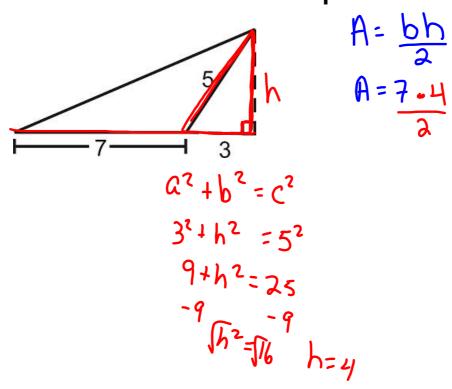
$$A = bh$$
 $A = 20.12$
 $A = 240 cm^2$

Example

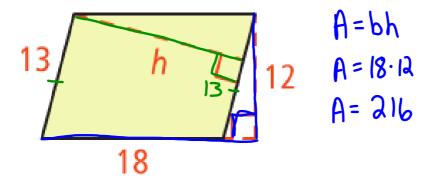


$$A = bh$$
 $A = (5.8)(3.5)$
 $A = 20.3 m^2$

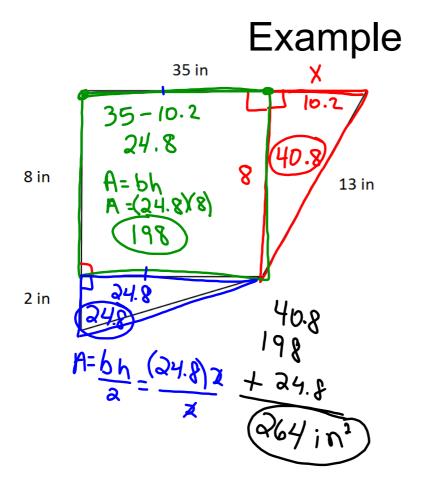
Example



Find the height of the parallelogram.



$$A = bh$$
 $21b = 13h$
 13
 $N = 16.6$

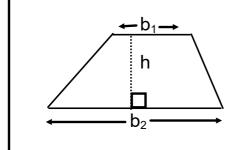


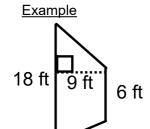
$$X^{2} + 8^{2} = 13^{2}$$
 $X = 10.2$
 $A = \frac{bh}{2}$
 $A = \frac{8(10.2)}{3}$
 $A = \frac{81.6}{2} = \frac{40.8}{3}$

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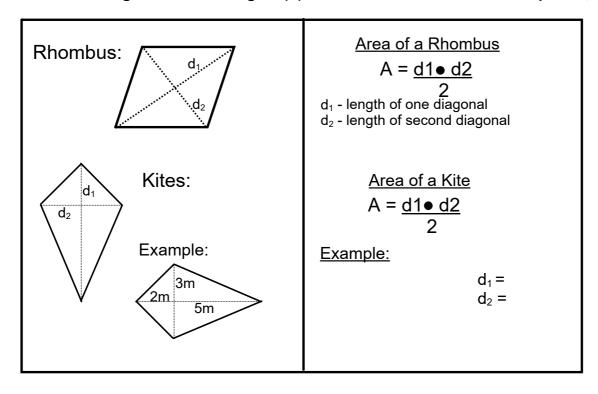


Area of a Trapezoid

$$A = \frac{h(b_1 + b_2)}{2}$$

b₁ & b₂ - parallel side lengthsh - height (perpendicular to bases)

<u>Example</u>



Closure: Today I learned how to find the area of a parallelogram and triangle.

Focus on identifying the base for the side you use!