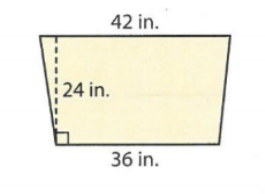
You will need a calculator today!

Warm Up!

1.) Write in agenda book

2.) Find the area of the figure below (you can use a calculator).



$A = \frac{1}{2} \cdot h \cdot (b_1 + b_2)$

$= \frac{1}{2} \cdot 24 (42 + 36)$

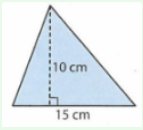
$= 936 \text{ in}^2$

Mar 9-9:14 AM

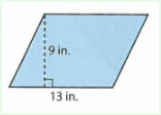
Review from Friday

Directions: Find the area of the figures below.

1.)



2.)



Mar 12-9:00 AM

Lesson 13.3: Solving Area Equations

Learning Target: I can use equations to solve problems about area of rectangles, parallelograms, trapezoids, and triangles.

Mar 9-9:15 AM

Remember the formulas from Lessons 13.1 and 13.2. We can use those formulas to find the missing dimension, when given the area and the other dimensions.

Mar 9-9:15 AM

1.) The Hudson High School wrestling team just won the state tournament and has been awarded a triangular pennant to hang on the wall in the school gymnasium. The base of the pennant is 1.5 feet long. It has an area of 2.25 square feet. What is the height of the pennant?

$A = \frac{1}{2}bh$

$2.25 = \frac{1}{2} \cdot 1.5 \cdot h$

$\frac{2.25}{0.75} = \frac{0.75h}{0.75}$

$3ft = h$

Mar 9-9:16 AM

2.) A garden in the shape of a trapezoid has an area of 44.4 square meters. One base is 4.3 meters long and the other base is 10.5 meters long. The height of the trapezoid is the width of the garden. How wide is the garden?

$A = \frac{1}{2} \cdot h \cdot (b_1 + b_2)$

$44.4 = 0.5h(10.5 + 4.3)$

$44.4 = 7.4h$

$h = 6$ meters

Mar 9-9:16 AM

3.) A parallelogram-shaped field in a park needs sod. The parallelogram has a base of 21.5 meters and a height of 18 meters. The sod is sold in pallets of 50 square meters. How many pallets of sod are needed to fill the field?

$A = bh$

$= 21.5 \cdot 18$

$= 387 m^2$

$387 \div 50 = 7.74$

8 pallets

Mar 9-9:17 AM

Khan Academy

- Finding missing length when given area of a parallelogram
- Finding missing length when given area of a triangle

Must score 100%

Mar 9-11:09 AM