Notes on back for area of a Trapezoid video

Section 7.4	Name: _____
Area of Parallelograms and Triangles	Date: _____ Period: _____
Essential Question	How do I find the area of a trapezoid, rhombus and kite?

Area of a Trapezoid

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

- Add two bases
- Times by height
- Divide by 2

Summarize what you learned from the video -

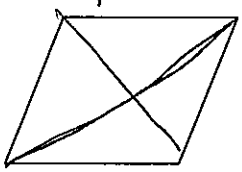
$A = \frac{1}{2} b_1 + b_2$ on formula sheet

Height must meet the base at a 90° ∠

Area of a Rhombus

$$A = \frac{d_1 d_2}{2}$$

or $A = \frac{1}{2} d_1 d_2$

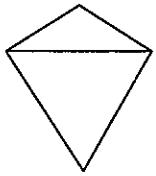


- Multiply both diagonals
- Divide by 2

Area of a Kite

$$A = \frac{1}{2} d_1 \cdot d_2$$

or $A = \frac{d_1 \cdot d_2}{2}$



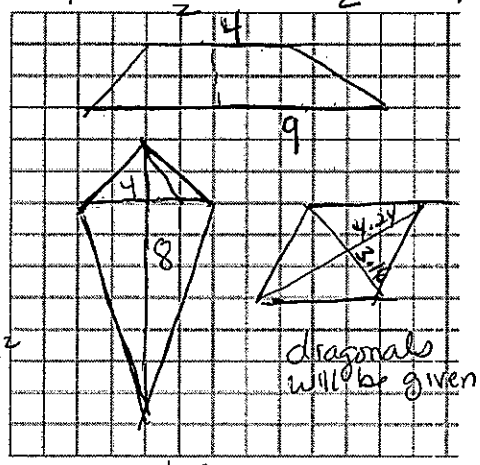
- multiply both diagonals
- divide by 2

Draw a trapezoid, rhombus and kite the grid below. You decide the size and location. If a fly landed . . .

Area formulas that divide by 2

- triangle
- trapezoid
- rhombus
- kite

$A = \frac{b_1+b_2 \cdot h}{2}$ $\frac{4+9 \cdot 2}{2} = 13u^2$



$\frac{4 \cdot 8}{2} = 16u^2$

diagonals will be given

Count the squares before solving

Summary