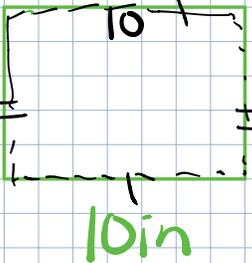


2/7/20

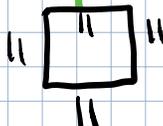
# Area of Parallelograms, Triangles, and Trapezoids

## Warm Up

①  Perimeter = 28 in

②  Perimeter = 22 ft

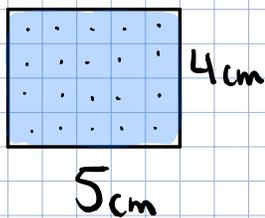
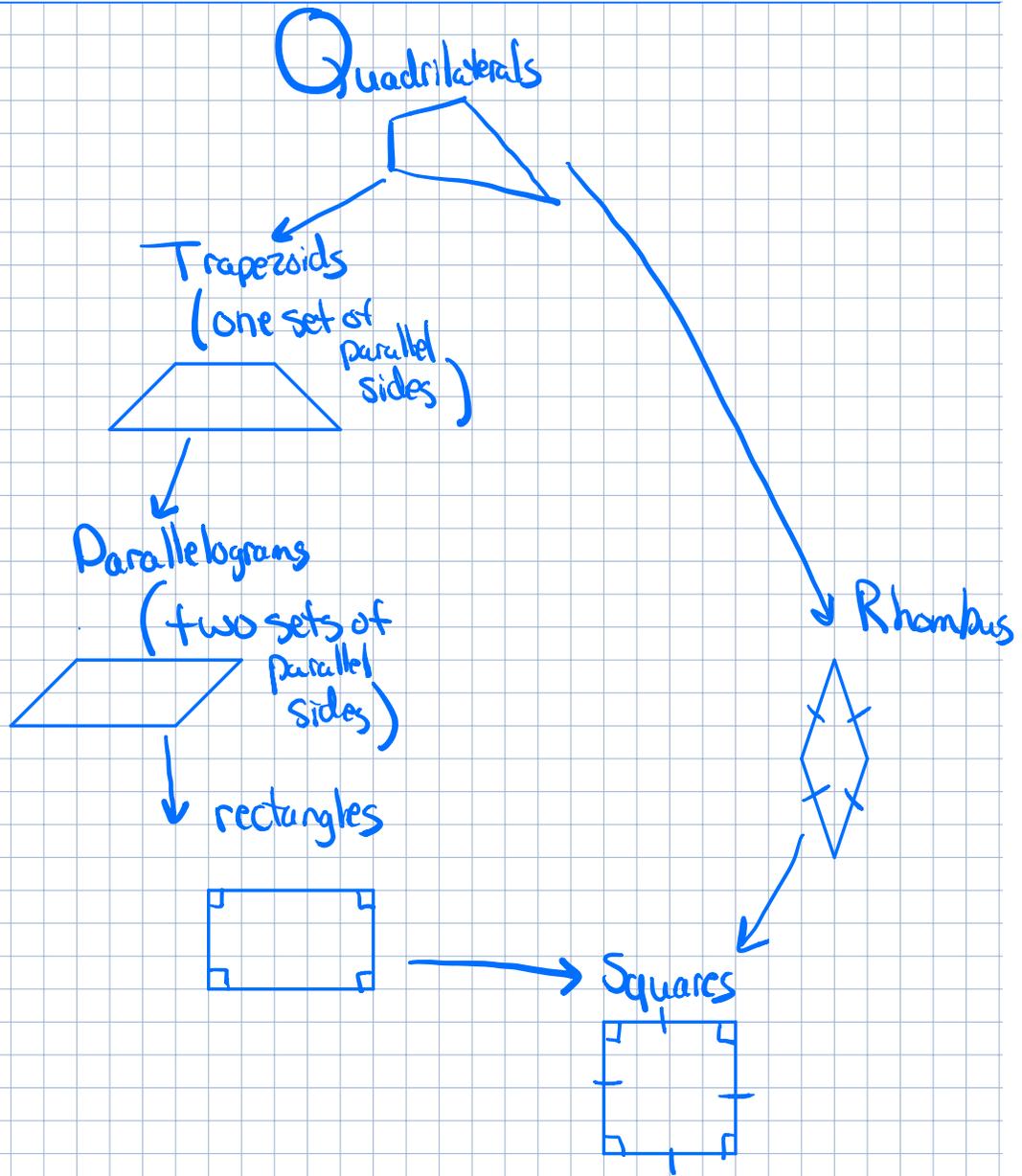
③ A square with sides that are 11 ft long ... Perimeter = 44 ft



④ 
$$\frac{3x}{3} = \frac{18}{3} \quad x = 6$$

⑤ 
$$\frac{1}{2}x + 12 = 36 \quad x = 48$$

$$\begin{array}{r} \frac{1}{2}x + 12 = 36 \\ -12 \quad -12 \\ \hline \frac{1}{2}x = 24 \\ \cdot \frac{2}{2} \quad \cdot \frac{2}{1} \\ \hline x = 48 \end{array} \quad \frac{.5x}{.5} = \frac{24}{.5}$$

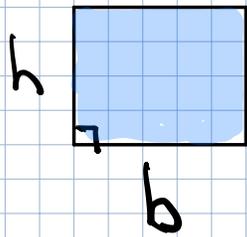


$$20\text{cm}^2$$

$$A = lw$$

$$A = 5(4)$$

$$A = 20\text{cm}^2$$

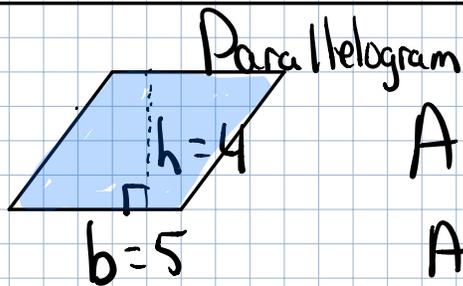


base =  $b$   
height =  $h$

$$A = bh$$

$$A = 5(4)$$

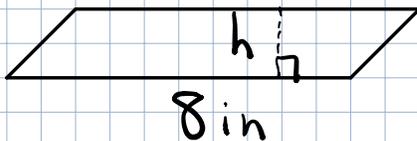
$$A = 20 \text{ cm}^2$$



$$A = bh$$

$$A = 5(4)$$

$$A = 20 \text{ units}^2$$



$$A = 32 \text{ in}^2$$

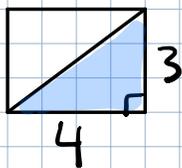
$$A = bh$$

$$32 = 8h$$

$$4 \text{ in} = h$$

---

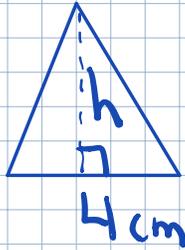
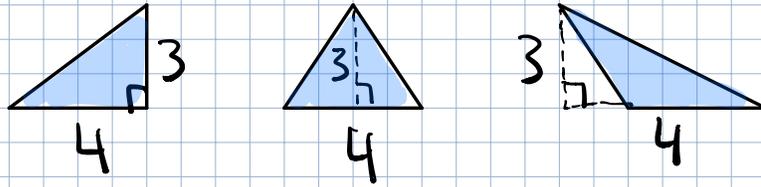
Triangle



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

$$A = \frac{1}{2}(4)(3)$$

$$A = 6 \text{ units}^2$$



$$A = 24 \text{ cm}^2$$

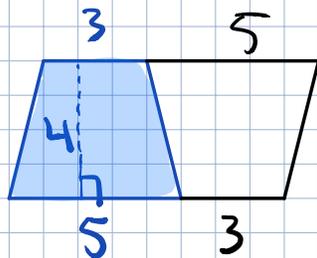
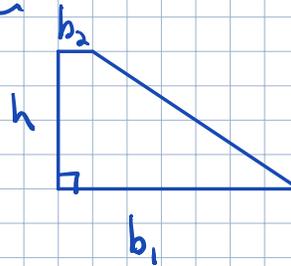
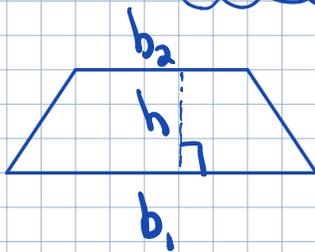
$$A = \frac{1}{2}bh$$

$$24 = \frac{1}{2}(4)h$$

$$24 = 2h$$

$$12 \text{ cm} = h$$

### Trapezoids



$$A = \frac{1}{2}(4)(5+3)$$

$$A = 16 \text{ units}^2$$

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

HW WS 1 all WS #1-3