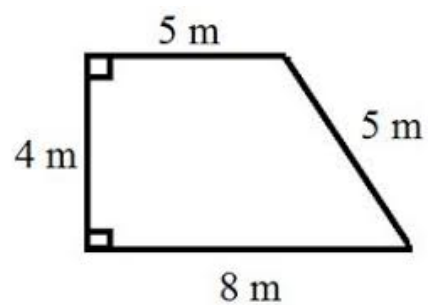
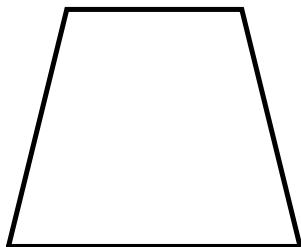


HW 1 Quiz Thursday

5 questions from HW 1, with different #'s

Answers to HW 1 now on my website

What does a trapezoid look like?

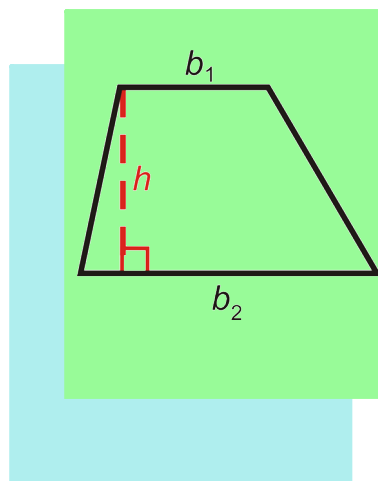


Trapezoid

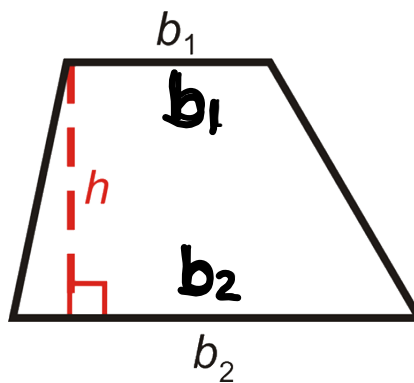
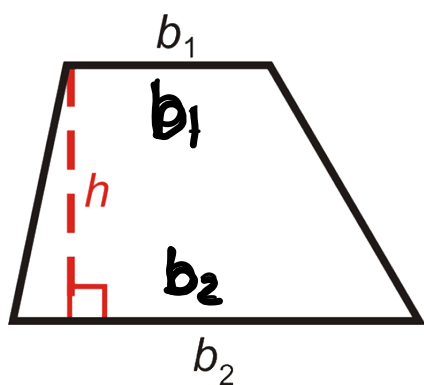
1) 4 sides

2) 2 sides are parallel

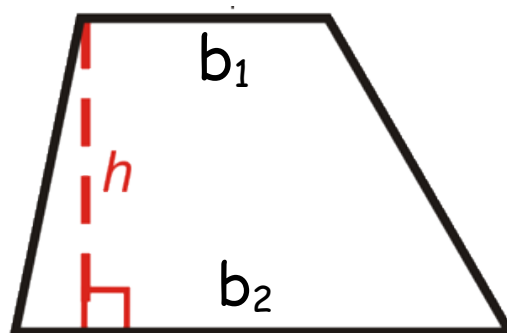
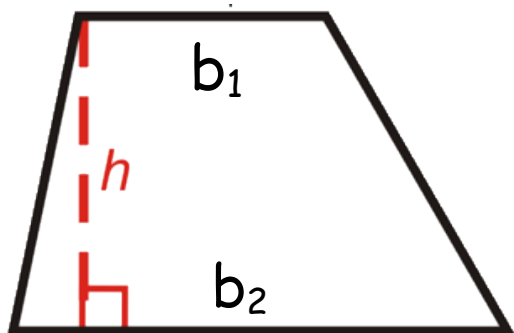
Cut two congruent trapezoids out of blue and green paper layered together.

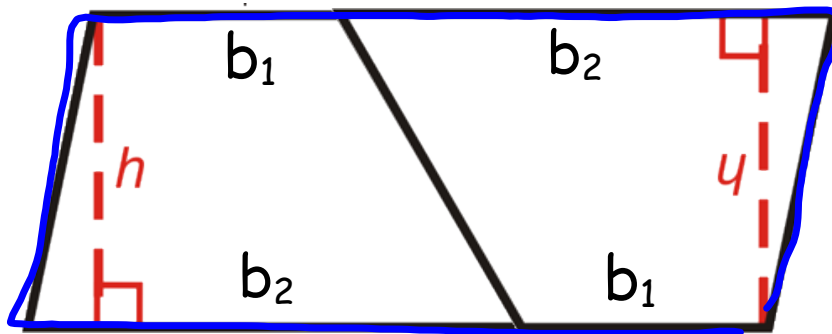


Label your different bases.



Can you make a **parallelogram** with your congruent trapezoids? *Glue or Tape your big parallelogram into your spiral.*





Every trapezoid is half of a parallelogram.

Trapezoid Area = $\frac{1}{2}$ of parallelogram

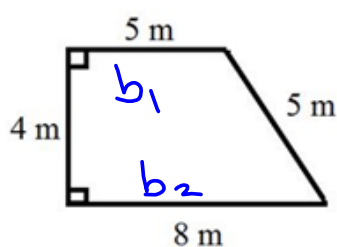
height · base

Trapezoid Area =

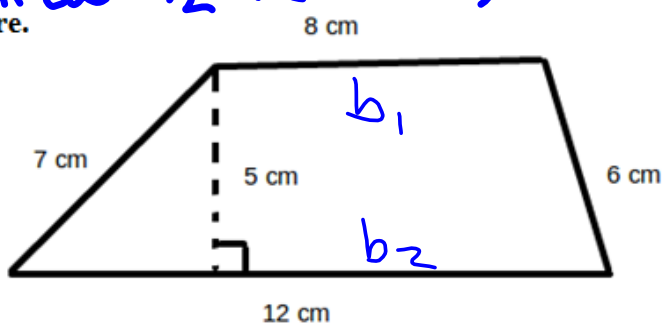
$$\frac{1}{2} \cdot h (b_1 + b_2)$$

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

Find the area of each figure.



$$\begin{aligned} & \frac{1}{2} \cdot h(b_1 + b_2) \\ & \frac{1}{2} \cdot 4(5 + 8) \\ & \frac{1}{2} \cdot 4 \cdot 13 \\ & 2 \cdot 13 \\ & \boxed{26 \text{ m}^2} \end{aligned}$$



$$\begin{aligned} & \frac{1}{2} \cdot h(b_1 + b_2) \\ & \frac{1}{2} \cdot 5(8 + 12) \\ & \frac{1}{2} \cdot 5 \cdot 20 \\ & \frac{1}{2} \cdot 100 \\ & \boxed{50 \text{ cm}^2} \end{aligned}$$