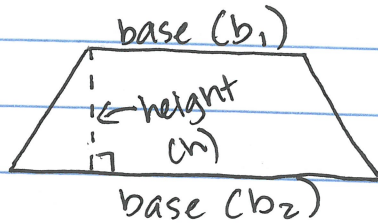
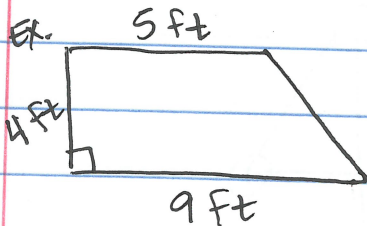


## Area of Trapezoids



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

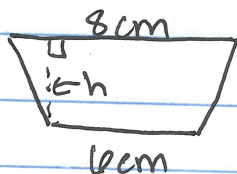


$$A = \frac{1}{2} (4) (5 + 9)$$

$$A = \frac{1}{2} (4) (14)$$

$$A = 28 \text{ ft}^2$$

Ex. Area is  $17.5 \text{ cm}^2$ .



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

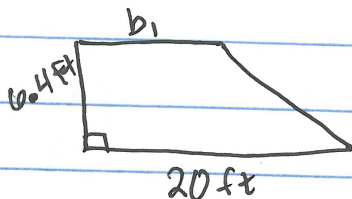
$$17.5 = \frac{1}{2} (8 + 6) h$$

$$17.5 = \frac{1}{2} (14) h$$

$$\frac{17.5}{7} = \frac{1}{1} h$$

$$2.5 \text{ cm} = h$$

Ex.  $A = 88 \text{ ft}^2$



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

$$88 = \frac{1}{2} (6.4) (b_1 + 20)$$

$$88 = 3.2 (b_1 + 20)$$

$$88 = 3.2b_1 + 64$$

$$-64 \quad -64$$

$$24 = 3.2b_1$$

$$\frac{24}{3.2} = \frac{3.2b_1}{3.2}$$

$$7.5 = b_1$$