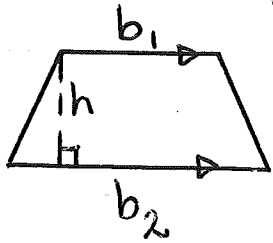
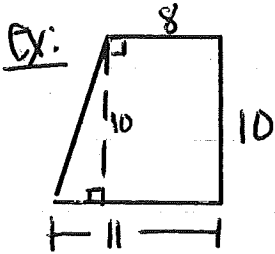


## 11-2 Triangles, Trapezoids & Rhombi

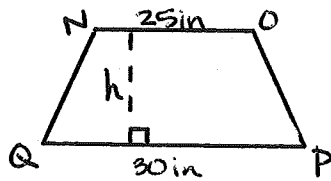


Area of a Trapezoid  
 $A = \frac{1}{2}h(b_1 + b_2)$



$$\begin{aligned} \text{Area} &= \frac{1}{2}(10)(11 + 8) \\ &= \frac{1}{2}(10)(19) \\ &= 95 \text{ km}^2 \end{aligned}$$

ex: Trapezoid NOPQ has an area of  $302.5 \text{ in}^2$ . Find the height.

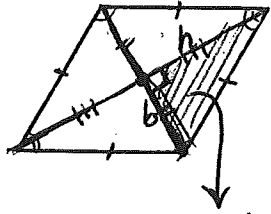


$$\begin{aligned} A &= \frac{1}{2}h(b_1 + b_2) \\ 302.5 &= \frac{1}{2}h(25 + 30) \end{aligned}$$

$$2 \cdot 302.5 = \frac{1}{2}h(55) \cdot 2$$

$$\frac{605}{55} = \frac{55h}{55}$$

$$h = 11 \text{ in.}$$



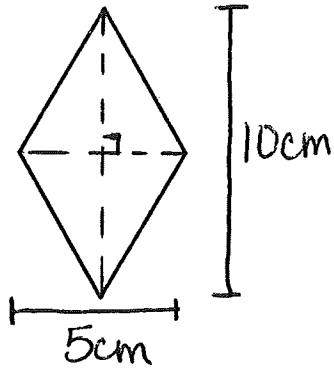
$$A = \frac{1}{2}bh$$

Area of a Rhombus

$$A = 4\left(\frac{1}{2}\right)bh$$

$$A = 2bh \Rightarrow A = d_1(d_2)$$

ex:



$$A = d_1(d_2)$$

$$A = 5 \cdot 10$$

$$A = 50 \text{ cm}^2$$