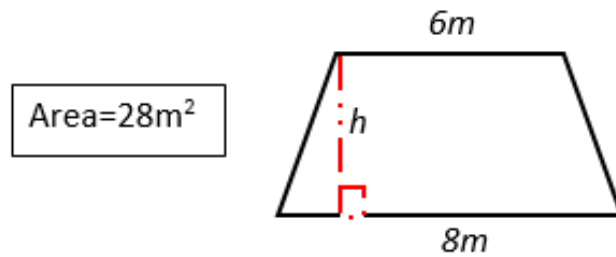


4.35 (Pg 168) Finding Base or Height of [Trapezoids](#)



When not given height...

Step 1 Write the Formula! $A = \frac{1}{2} h(b_1 + b_2)$

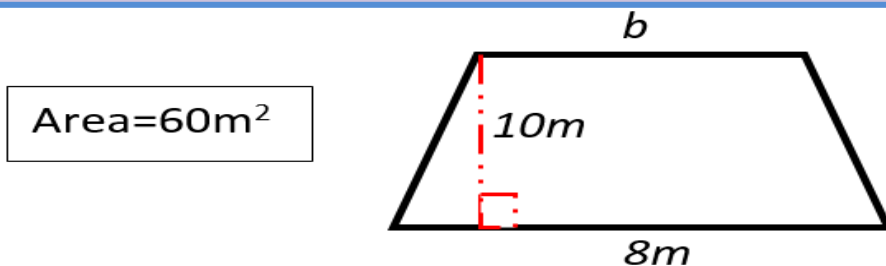
Step 2 Write what you know! $28 = \frac{1}{2} h(6+8)$

Step 3 Clean and Solve. $28 = \frac{1}{2} h(14)$

Combine like terms $28 = 7h$

Step 4 Use Inverse Operation $28/7 = 7h/7$

Divide both sides by 7 $4 = h$ "Height is 4 meters"



When not given one of the bases...

Step 1 Write the Formula! $A = \frac{1}{2} h(b_1 + b_2)$

Step 2 Write what you know! $60 = \frac{1}{2} 10(8+b)$

Step 3 Clean and Solve. $60 = 5(8+b)$

Divide from both sides $\frac{60}{5} = \frac{5(8+b)}{5}$

Subtract from both sides $12(-8) = 8+b(-8)$

$4 = b$ So the base is 4m.