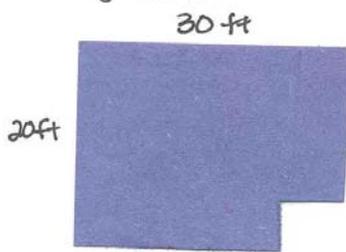


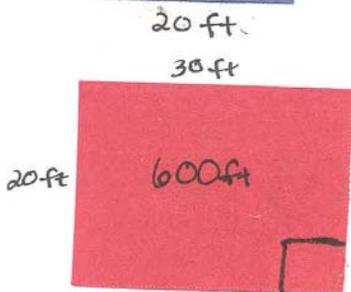
# Take-Away

Emily finally got to go home and visit her family (and do some free laundry!). Her little sister Leah was working on some math homework but was having some problems. Emily, being the good big sister that she is, was eager to give some help. Leah was stumped on trying to find the area of figure A.



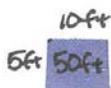
Leah knew how to find the area of a rectangle ( $b \times h$ ) but that's as far as she could get.

💡 The idea of the take-away method popped into Emily's head. She described it in 3 easy steps.



1. Find the area of the rectangle as if the little piece in the lower right hand corner was filled in.

$$\text{Leah found } 30 \times 20 = 600$$

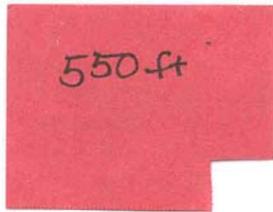


2. Find the area of the small rectangle.

Leah figured one side was  $30 - 20 = 10$  and the other was  $20 - 15 = 5$

so she used  $b \times h$  or  $5 \times 10 = 50$

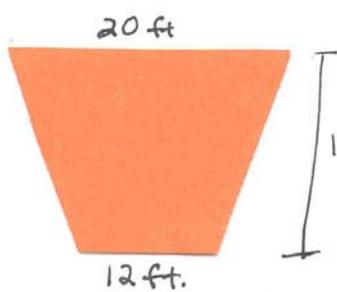
by Emily Lanie



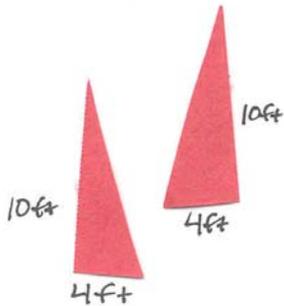
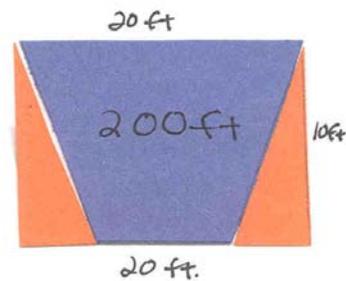
3. Lastly take the big rectangle area which was 600 and subtract the little rectangle which was 50.

Leah took  $600 - 50$  to get 550 ft as the area of the figure A.

Leah was excited to use the method on figure B.



1. Leah added triangles to the side to make a rectangle. then she found its area.  
 $20 \times 10 = 200$



2. Then Leah found the area of each triangle by using  $\frac{1}{2}(b \times h)$ .

$$\frac{10 \times 4}{2} = \frac{40}{2} = 20 \text{ ft} \quad \frac{10 \times 4}{2} = \frac{40}{2} = 20 \text{ ft}$$

She added both triangles together  
 $20 + 20 = 40 \text{ ft}$ .



3. For the last step Leah took the area of the big rectangle (200 ft) and subtracted the two triangles (40 ft) together

the answer:  $200 - 40 = 160 \text{ ft}$

Leah decided the take-away method worked best for her and made it easier to understand.



True Story  
by: Emily Lanie