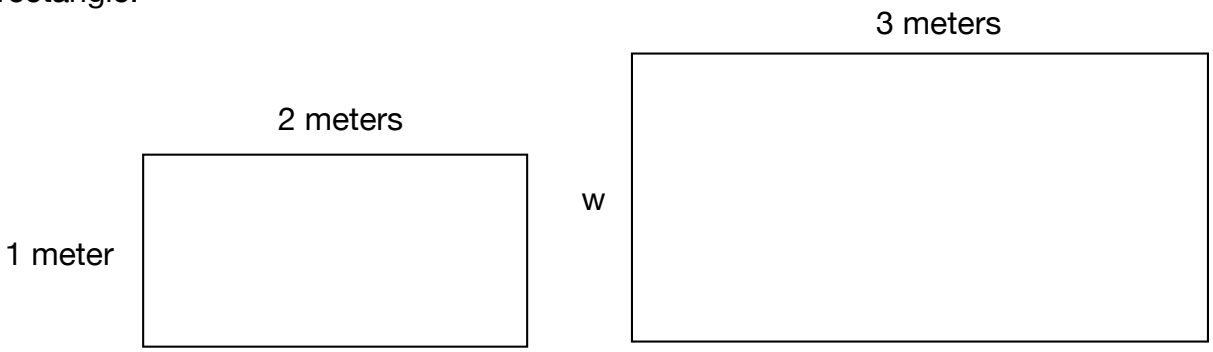
Similarity: Using Proportions

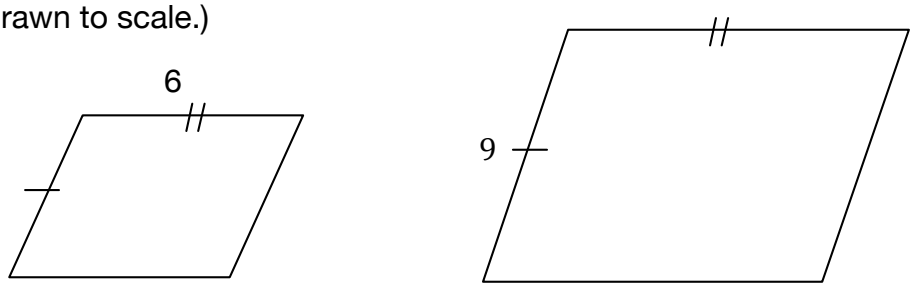
Use What You've Learned

1. The following two rectangles are similar. Find the missing width by looking at the relationship between the length of the first rectangle and the length of the second rectangle.



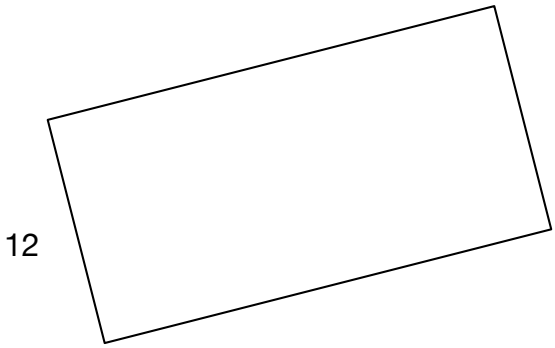
2. Solve the above problem by looking at the relationship between the width of the first rectangle, 1 meter, and the length, 2 meters. Use this relationship to determine and width of the second rectangle.

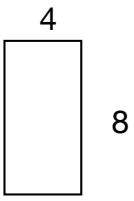
3. The following two parallelograms are similar and have a scale factor of three. Fill in the missing side lengths. Hash marks identify corresponding sides. (Note: the parallelograms are not drawn to scale.)



4. Show how to solve this problem using another method.

5. The following rectangles have a scale factor of $\frac{1}{3}$. Fill in the missing side length.





6. Ben has two different sizes of photos of his family in front of the White House. One photo is 5 inches by 7 inches and the other photo is 8 inches by 10 inches. Are the photos similar? Explain your reasoning.