

# MasterMath

Name \_\_\_\_\_

## Finding Unknown Measures in Similar Figures

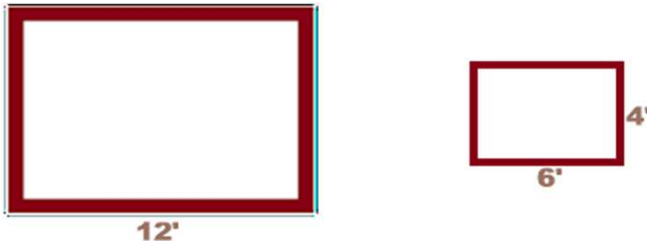
Date \_\_\_\_\_

1. You are five feet tall, and are casting a shadow that is 7.5 feet in length. The near-by wall is casting a shadow that is 10' long. How tall is the wall?

6.7'

2. These rectangles are similar. What is the area of the larger rectangle?

96 sq ft



3. For the rectangles above, what is the perimeter of the larger rectangle?

40'

4. One gallon of paint was required to paint the north wall in the classroom. That wall was 26' long and 8' high. You also need to paint the gym's north wall, which is a shape similar to the classroom wall, but the height is 20'. There are no doors or windows in either wall. How much paint will you need for the gym wall?

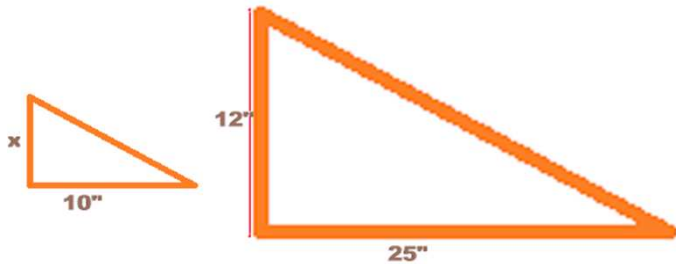
6.25 gal

5. The ratio of side length of Square A to the side length of Square B is 3:1. The side length of Square B is 12'. What is the perimeter of Square A?

144'

6. These are Similar Triangles. Find x.

4.8"



7. For the triangles above, find the area of the smaller.

24 sq in