



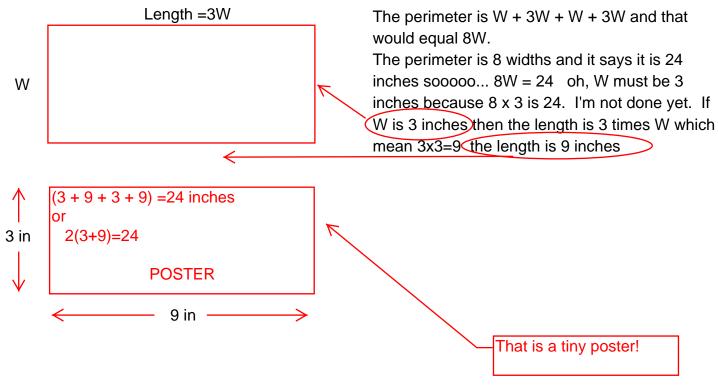
<u>Name</u>

Date

Solve the following problem. Use pictures, numbers, or words to show your work.

A rectangular poster is 3 times as long as it is wide. A rectangular banner is 5 times as long as it is wide. Both the banner and the poster have perimeters of 24 inches. What are the lengths and widths of the poster and the banner?

Well, I know it's a rectangle so first thing I do is draw a rectangle. Now it says it's 3 times as long as it is wide, so if one side is "wide" then the adjacent side must be 3 X "wide". I'll call "wide" "W". So, one side is W and the other side is 3W.



Now the next one will be easy. We have a "W" and the other side is 5 times as long so "5W"

	-		
	Perimeter = (W + 5W) x 2 so that's 6W x 2 = 12W (that was two of the widths and two of the lengths)	Banner	2 in
	so 12W = 24 soooo W must be 2 inches. That makes the length 5 times longer than 2 or 10 inches. Check the perimeter: 2+10+2+10=24 inches	10 in	
IMON	Lesson 3: Demonstrate understanding of area and perimeter formulas by multi-step real world problems. Date: 7/23/14	engage ^{ny}	<u>3.A.41</u>