



Perimeter and Area of Quadrilaterals

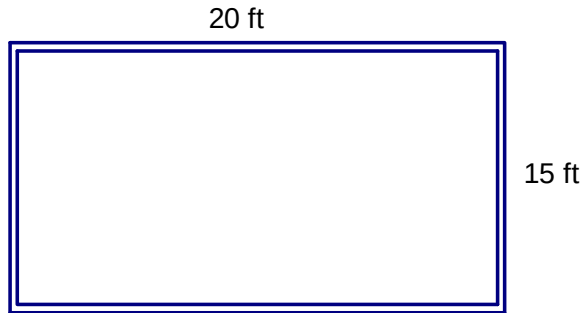
Standards: Calculate Perimeter and Area of a Rectangle.

Identify the critical information in the problem to solve it.

Describe logical steps to solve a problem.

Task:

You are remodeling your room. First you decided to change the carpet.



1. You need to replace the tack strip (the strip of nails that goes around the room to hold the carpet). You measured the room and found that it is 20 by 15 ft. How many feet of tack strip do you need to buy for your room?

2. Now you need to buy the carpet. How many square feet of the carpet do you need to buy?

3. The carpet needs to be put on padding (a sponge like material that goes under the carpet to make it softer and more durable). It needs to fit exactly into the area outlined by the tack strip. If the tack strip is 1 inch wide, how much padding would you need?

4. Write out the steps of how you were solving Problem 3. Use additional space if needed.

First I _____

Then I _____

After that I _____

	3	2	1	0
<i>Know when to use perimeter or area formula</i>	<i>Student used the correct formula for all three problems</i>	<i>Student used the correct formula for two problems</i>	<i>Student used the correct formula for 1 problem</i>	<i>Student did not use the correct formulas in any problem</i>
<i>Use related information to solve problems</i>	<i>Student used the related information to use in the problem</i>			<i>Student used extraneous information to solve the problem</i>
<i>Know and apply appropriate unit measures for the values</i>	<i>All the values are labeled with the appropriate units of measure</i>	<i>Most of the values are labeled with units of measure and most of them are correct.</i>	<i>Some of the values are labeled with units of measure and some of them are correct.</i>	<i>Units of measure are not used in the task.</i>
<i>Describe logical steps of solving problem</i>	<i>Steps of the problem are in correct order and are accompanied by mathematical explanation</i>	<i>Steps are accompanied by mathematical explanation but are not in correct order.</i>	<i>Only mathematical explanation is presented</i>	<i>No response for question 4</i>