

Check for Mistakes in this Word Problem: enough-carpet?

Directions: You have 100 square feet of carpet to put down in your room. Write a function that takes in the length and width of your room and returns true if you have enough carpet and false if you don't.

Contract and Purpose Statement

Every contract has three parts...

<code>; enough-carpet?</code>	<code>:</code>	<code>number number</code>	<code>→</code>	<code>number</code>
<hr/>		<hr/>		<hr/>
<i>function name</i>		<i>domain</i>		<i>range</i>

<code>; Given length and width of a room, is the area less than 100 sq feet?</code>
<hr/>
<i>what does the function do?</i>

Examples

Write some examples, then circle and label what changes...

<code>(EXAMPLE (enough-carpet?</code>	<code>(10 15)</code>	<code>)</code>	<code>(< (* 10 15) 100)</code>	<code>)</code>
<hr/>	<hr/>		<hr/>	
<i>function name</i>	<i>input(s)</i>		<i>what the function produces</i>	

<code>(EXAMPLE (enough-carpet?</code>	<code>(9 10)</code>	<code>)</code>	<code>(< (* 9 10) 100)</code>	<code>)</code>
<hr/>	<hr/>		<hr/>	
<i>function name</i>	<i>input(s)</i>		<i>what the function produces</i>	

Definition

Write the definition, given variable names to all your input values...

<code>(define (enough-carpet?</code>	<code>length width</code>	<code>)</code>
<hr/>	<hr/>	
<i>function name</i>	<i>variables</i>	

<code>(< (* length width) 100)</code>	<code>)</code>
<hr/>	
<i>what the function does with those variables</i>	