

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>
_____		_____		_____
<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>

<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>
_____	_____		_____	
<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>
_____	_____		_____	
<i>function name</i>	<i>input(s)</i>		<i>what the function produces</i>	

Definition

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

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

<code>(< (* length width) 100)</code>	<code>)</code>

<i>what the function does with those variables</i>	