

## 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>(&lt; (* 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>(&lt; (* 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>(&lt; (* length width) 100)</code>	<code>)</code>
_____	
<i>what the function does with those variables</i>	