

## 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...

; enough-carpet? : number number → number  
function name domain range

; Given length and width of a room, is the area less than 100 sq feet?  
what does the function do?

### Examples



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

(EXAMPLE( enough-carpet? (10 15) ) (< (\* 10 15) 100) )  
function name input(s) what the function produces

(EXAMPLE( enough-carpet? (9 10) ) (< (\* 9 10) 100) )  
function name input(s) what the function produces

### Definition



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

(define( enough-carpet? length width )  
(< (\* length width) 100) )  
function name variables what the function does with those variables