

**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...*

$$\frac{\text{; enough-carpet?} \quad : \quad \text{number number} \quad \rightarrow \quad \text{number}}{\text{function name} \quad \text{arguments} \quad \text{result}}$$

function name

domingo

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(1)

what the function produces

```
(EXAMPLE( enough-carpet? (9 10) ) (< (* 9 10) 100) )
```

function name

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what the function produces

### Definition

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

```
(define (enough-carpet? length width )
```

```
(< (* length width) 100)
```

what the function does with these variables