

# Word Problem: double-width

Write a function *double-width*, which takes in a number (the length of a rectangle) and produces a rectangle whose width is twice the given length.

## Contract+Purpose Statement

Every contract has three parts:

# double-width :: Number  $\rightarrow$  Image  
name Domain Range  
Consumes a length and produces a solid green rectangle whose width is twice  
# the given length  
What does the function do?

## Give Examples

Write examples of your function in action

examples:

double-width ( 45 ) is  
the user types... length  
rectangle ( 45, 45 \* 2, "solid", "green" )  
...which should become length

double-width ( 8 ) is  
the user types... length  
rectangle ( 8, 8 \* 2, "solid", "green" )  
...which should become length

end

## Function

Circle the changes in the examples, and name the variables.

Write the code, copying everything that isn't circled, and using names where you find variables!

fun double-width ( length ) :

rectangle(length, length \* 2, "solid", "green")

end