

## Check for Mistakes in this Word Problem: scale-image

**Directions:** Write a function which takes an image and a string, representing what to scale the image by. The function should return a smaller image if the string is 'smaller' and a bigger image if the string is 'bigger'.

### Contract and Purpose Statement



Every contract has three parts...

; scale-image : image string → image  
function name domain range

; Make the image bigger or smaller, depending on the given string  
what does the function do?

### Examples



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

(EXAMPLE( scale-image (circle 5 "solid" "red") "bigger" ) (circle 10 "solid" "red") )  
function name input(s) what the function produces

(EXAMPLE( scale-triangle (triangle 20 "solid" "blue") "smaller" )  
(triangle 10 "solid" "blue") )  
function name input(s) what the function produces

### Definition



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

(define( scale-image original-image scale-factor )  
function name variables

(cond

[(string=? scale-factor "bigger") (scale 2 original-image)]

[(string=? scale-factor "smaller") (scale 0.5 original-image)]

[else original-image] ))