

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
               functionname      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" )
          functionname      input (s)
          (circle 10 "solid" "red") )
          what the function produces

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

Definition

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

```
(define ( scale-image original-image scale-factor )
         functionname      variables

  (cond

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

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

    [else original-image ]))
```