

# 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" )
      function name          input(s)
      (circle 10 "solid" "red") )
      what the function produces
```

```
(EXAMPLE( scale-triangle (triangle 20 "solid" "blue") "smaller" )
      function name          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 )
      function name          variables
  (cond
    [(string=? scale-factor "bigger") (scale 2 original-image) ]
    [(string=? scale-factor "smaller") (scale 0.5 original-image) ]
    [else original-image ]))
```