

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...

<code>scale-image</code>	<code>image string</code>	\rightarrow	<code>image</code>
<i>function name</i>	<i>inputs</i>		<i>output</i>

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")
```

```
(EXAMPLE( scale-triangle (triangle 20 "solid" "blue") "smaller" )
```

function name	input(s)
<code>triangle 10 "solid" "blue"</code>	

Definition

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

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

(cond _____)

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

```
listings=2 scale-factor *smaller* | iscale 0.5 original-image) 3
```

$\{ \text{"x1": 0, "y1": 0, "x2": 1, "y2": 1 } \}$	$\{ \text{"x1": 0, "y1": 0, "x2": 1, "y2": 1 } \}$
$\{ \text{"x1": 0, "y1": 0, "x2": 1, "y2": 1 } \}$	$\{ \text{"x1": 0, "y1": 0, "x2": 1, "y2": 1 } \}$

```

else original-image

```