What's Wrong with these Recipes? 6

Directions: Write a function that 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")
(EXAMPLE (scaleImage "red"(triangle 20 "solid" "blue") "smaller")
    what the function produces
    function name   *input(s)*

(triangle 10 "solid" "blue")   )
   what the function produces

Definition

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

(define (scale-image original-image scale-factor)
    function name   *variable(s)*

 (cond

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

   [(string=? scale-factor "smaller")

   [else(scale 0.5 original-image)   original-image   ]

  ))
      what the function does with those variable(s)

Directions: Some states have different tax rates. New York is 8%, Pennsylvania is 3%, and Delaware is 0%. All other states are 5%. Write a function that takes in the price of an item and returns how much the tax will be on the item.

Contract and Purpose Statement

Every contract has three parts...

; state-tax :   String   -> Number
  function name   *domain*   *range*

; Given the state and an item's price, return the tax on that item
        what does the function do?

Examples

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

(EXAMPLE (tax   Delaware) (+ 0.0 price)   )
    function name   *input(s)*   *what the function produces*

(EXAMPLE (tax   Georgia) (+ 0.05 price)   )
    function name   *input(s)*   *what the function produces*

Definition

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

(define (state-tax state price)
    function name   *variable(s)*

 (cond

   [(string=? state "Pennsylvania")   (* 0.03 price)   ]

```
    [(string=?  state  "New  York")          (*  0.08  price)                          ]

    [(string=?  state  "Delaware")           (*  0.0  price)                            ]

    [else                                    (*  0.05  price)                           ]

))
```
what the function does with those variable(s)