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...

```
examples:
  scale-image ("circle(5, \"solid\", \"red\")", "\"bigger\"")
  is circle(10, "solid", "red")
  scaleimage ("triangle(20, \"solid\", \"blue\")", "\"smaller\"")
  is triangle(10, "solid", "blue")
end
```
function name *input(s)* *what the function produces*

Definition

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

```
fun scale-image(original-image, scale-factor):
  ask:
  | scale-factor == "bigger" then: scale(2, original-image)
  | scale-factor == "smaller"
  then: scale(0.5, original-image)
  | otherwise: original-image
  end
end
```
function name *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...

```
examples:
  tax ("Delaware") is 0.0 + price
  tax ("Georgia") is 0.05 + price
end
```
function name *input(s)* *what the function produces*

Definition

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

```
fun state-tax( state price ):
  ask:
```
function name *variable(s)*

```
  | state == "Pennsylvania"          then: 0.03 * price
  | state == "New York"              then: 0.08 * price
  | state == "Delaware"              then: 0.0 * price
  | otherwise:   0.05 * price
  end
end
```