Check for Mistakes in this Word Problem: state-tax

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 and returns how much the tax will be on the item.*

Contract and Purpose Statement

Every contract has three parts...

```
; state-tax : string → number
; Given the state and an item's price, returns the tax on that item
```

function name *domain* *range* *what does the function do?*

Examples

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

```
(EXAMPLE((tax Delaware) ) (+ 0.0 price) )
(EXAMPLE( (tax Georgia) ) (+ 0.05 price) )
```

function name *input(s)* *what the function produces*

Definition

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

```
(define( state-tax state price )
        (cond
          [(string=? state "Pennsylvania") (* 0.03 price) ]
          [(string=? state "New York") (* 0.08 price) ]
          [(string=? state "Delaware") (* 0.0 price) ]
          [else (* 0.05 price) ]))
```

function name *variables*