

## 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 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 the tax on that item

Examples

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

(EXAMPLE (

(tax Delaware)\_\_\_\_\_)(+ 0.0 price)

(EXAMPLE (

(tax Georgia)\_\_\_\_\_)(+ 0.05 price)

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)