

Check for Mistakes in this Word Problem: state-tax

Directions: Some states have different tax rates. New York is 8%, Pennsylvania is 6%, 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

function name

domain

range

;

Given the state and an item's price, returns the the tax on that item

Examples

Write some examples, don't write and don't forget 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, given variable names to all your input values...

(define(state-tax state price)

function name

variables

(cond

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

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

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

(else (* 0.05 price))

)))