## **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.

Contrac	t and Purpo	se Statement					
Every contract	t has three parts						
; state-tax :		S	string		$\rightarrow$	number	
function	n name		domain			range	
; Given the	e state and a	n item's price, retur	ns the	e the tax on that	tem		
		wha	at does the	function do?			
Example	es						
Write some ex	amples, then circle	and label what changes					
(EXAMPLE	( (tax Delawa	re)		) (+ 0.0 price)			)
	function name	input(s)		what the function	n produces		
(EXAMPLE	( (tax Georg	a)		) (+ 0.05 price)			)
	function name	input(s)		what the functio	n produces		
Definition	on						
Write the defin	nition, given variable	names to all your input va	alues				
(define(	state-tax	state price	)				
	function name	variables	_				
(cor	nd	_					
[(st	ring=? state "I	Pennsylvania")		(* 0.03 price)			]
[(string=? state "New York")				(* 0.08 price)			]
				(* 0.0 price)			1
[(St	[(string=? state "Delaware")			(* 0.0 price)			1
[else				(* 0.05 price)			]))