**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 ...

<table>
<thead>
<tr>
<th>; state-tax : string → number</th>
</tr>
</thead>
<tbody>
<tr>
<td>function name</td>
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</table>

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

**Examples**

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

(EXAMPLE((tax Delaware) ) (+ 0.0 price) )

<table>
<thead>
<tr>
<th>EXAMPLE( (tax Georgia) ) (+ 0.05 price) )</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

**Definition**

Write the definition, giving 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) ]))