

Check for Mistakes in this Word Problem: check-total

Directions: It is customary to tip 20% on a bill at a restaurant. Write a function that takes the total cost of the food and returns the new total including tip.

Contract and Purpose Statement

Every contract has three parts...

;	check-total	:	number	\rightarrow	number
	<hr style="width: 100%; border: 0; border-top: 1px solid black; margin: 0;"/>		<hr style="width: 100%; border: 0; border-top: 1px solid black; margin: 0;"/>		<hr style="width: 100%; border: 0; border-top: 1px solid black; margin: 0;"/>
	<i>function name</i>		<i>domain</i>		<i>range</i>

what does the function do?

Examples

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

<i>function name</i>	<i>input(s)</i>	<i>what the function produces</i>
(EXAMPLE((total 20)) (20 (+ (0.2 * 20) 20))

<i>function name</i>	<i>input(s)</i>	<i>what the function produces</i>
(EXAMPLE((total 56.67)) (56.67 (+ (0.2 * 56.67) 56.67))

Definition

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

```
(define( check-total food-total )
  function name      variables

  (* (+ 0.2 food-total) food-total)
  what the function does with those variables
```