

**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	→	number
	<i>function name</i>		<i>domain</i>		<i>range</i>

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what does the function do?

## Examples

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

function name	input(s)	what the function produces
(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
```