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

function name *domain* *range*

; Returns the total of a check with 20% of the cost added

what does the function do?

Examples

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

(EXAMPLE((total 20)) (20 (+ (0.2 * 20) 20)))

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

(EXAMPLE((total 56.67)) (56.67 (+ (0.2 * 56.67) 56.67)))

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

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