

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)))
function name *input(s)*

(56.67 (+ (0.2 * 56.67) 56.67)))
what the function produces

Definition

Write the definition, giving 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