

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
functionname 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))
functionname input (s) what the function produces
(EXAMPLE (total 56.67))
functionname input (s)
(56.67 (+ (0.2 * 56.67) 56.67))
what the function produces

Definition

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

(define (check-total food-total)
functionname variables
(* (+ 0.2 food-total) food-total)
what the function does with those variables