

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

Use the definition, giving variable names to all your signal values...

(define (check-total food-total)

)

function name

variable

(+ (* 0.2 food-total) food-total)

)

what the function does with these variables