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