

What's Wrong with these Recipes? 1

Directions : All students are given five (5) pencils at the beginning of the school year. Write a function called calc-pencils that takes in the number of students in the school and calculates the number of pencils needed for that school.

Contract and Purpose Statement

Every contract has three parts...

calc-pencils:: Number -> Number
function name *domain* *range*

Takes a number of students and gives the number of pencils

what does the function do?

Examples

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

examples:

calc-pencils (100) **is** 100 * 5
function name *input(s)* *what the function produces*

calc-pencils (40) **is** 40 * 6
function name *input(s)* *what the function produces*

end

Definition

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

fun calculate-pencils(p):
function name *variable(s)*
p * 5
what the function does with those variable(s)

end

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...

examples:

total (20) **is** 20 ((0.2 x 20) + 20)
function name *input(s)* *what the function produces*

total (56.67) **is** 56.67 ((0.2 x 56.67) + 56.67)
function name *input(s)* *what the function produces*

end

Definition

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

fun check-total(food-total):
function name *variable(s)*
(0.2 + food-total) * food-total
what the function does with those variable(s)

end