

# Word Problem: average

**Directions :** To find the average of two numbers, they should be added together and divided by two. Define a function which takes in two numbers and produces their average.

## Contract and Purpose Statement

Every contract has three parts...

; average : Number Number -> Number  
*function name* *domain* *range*

; Takes in two Numbers and produces a Number as the average  
*what does the function do?*

## Examples

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

(EXAMPLE (average 0 30) (/ (+ 0 30) 2) )  
*function name* *input(s)* *what the function produces*

(EXAMPLE (average 4 10) (/ (+ 4 10) 2) )  
*function name* *input(s)* *what the function produces*

## Definition

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

(define (average n1 n2)  
*function name* *variable(s)*

(/ (+ n1 n2) 2)  
*what the function does with those variable(s)*