

# Check for Mistakes in this Word Problem: calc-pencils

**Directions:** All students are given five (5) pencils at the beginning of the school year. Write a function called calc-pencils that takes 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...

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

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

## Definition

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

(define(calculate-pencils p )  
*function name* *variables*

( \* p 5 )  
*what the function does with those variables*