

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 ...

;	<u>calc-pencils</u>	:	<u>number</u>	→	<u>number</u>
	<small>function name</small>		<small>domain</small>		<small>range</small>
;	<u>Takes a number of students and gives the number of pencils</u>				
	<small>what does the function do?</small>				

Examples

Write some examples of your function in action...

(EXAMPLE	<u>calc-pencils</u>	<u>100</u>)	<u>(* 100 5)</u>)
	<small>function name</small>	<small>input(s)</small>		<small>what the function produces</small>	
(EXAMPLE	<u>calc-pencils</u>	<u>40</u>)	<u>(* 40 6)</u>)
	<small>function name</small>	<small>input(s)</small>		<small>what the function produces</small>	

Definition

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

(define	<u>calculate-pencil</u>	<u>p</u>)
	<small>function name</small>	<small>variables</small>	
	<u>(* p 5)</u>		
	<small>what the function does with those variables</small>		