

# **Initiation dynamique à l'algèbre avec le logiciel CARAPACE**

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[http://www.math.uqam.ca/~boileau/  
gruteam2015.php](http://www.math.uqam.ca/~boileau/gruteam2015.php)

# Pour accéder au texte de base

- Mot de passe :

Problem 1:

Write an equation using the variables  $S$  and  $P$  to represent the following statement: "There are six times as many students as professors at this University." Use  $S$  for the number of students and  $P$  for the number of professors.

Sample Size	% Correct	% Incorrect
150	63	37

Problem 2:

Write an equation using the variables  $C$  and  $S$  to represent the following statement: "At Mindy's restaurant, for every four people who order cheesecake, there are five people who ordered strudel." Let  $C$  represent the number of cheesecakes and  $S$  represent the number of strudels.

Sample Size	% Correct	% Incorrect
150	27	73



Problem 1:

Given the following statement:

"At the last football game, for every 4 people who bought sandwiches, there were 5 who bought hamburgers."

Write an equation which represents the above statement. Use S for the number of people who bought sandwiches, and H for number of people who bought hamburgers

Sample Size	% Correct	% Incorrect
17	53	47

Problem 2:

Given the following statement:

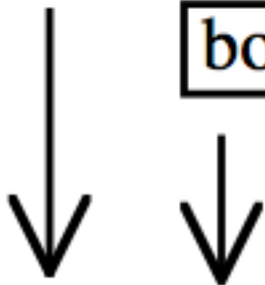
"At the last company cocktail party, for every 6 people who drank hard liquor, there were 11 people who drank beer."

Write a computer program in BASIC which will output the number of beer drinkers when supplied (via user input at the terminal) with the number of hard liquor drinkers. Use H for the number of people who drank hard liquor, and B for the number of people who drank beer.

Sample Size	% Correct	% Incorrect
17	100	0

nombre d'abonnements

bonus pour un abonnement



$5 \times 4\$$  donne  $20\$$



bonus total



$20\$ + 20 \$$  donne  $40\$$

salaire total



salaire de base

