

**Assignment: T1-05 Evaluating Expressions**

Date \_\_\_\_\_ Period \_\_\_\_\_

**Evaluate the following expressions for the given value(s).**

1.  $x + y - z$  for  $x = 2, y = -3, z = 4$

2.  $a - 2b + ab$  for  $a = 3, b = -1$

3.  $s + 2(s - 1)$  for  $s = 3$

4.  $x - 3y - x$  for  $x = -2, y = 4$

5.  $x - y + z$  for  $x = 6, y = -3, z = 2$

6.  $a - 2b + ab$  for  $a = 3, b = -1$

7.  $-x^2 - 2(x + 1)$  for  $x = 3$

8.  $c(3 - d) - c^2$  for  $c = -3, d = 5$

9.  $\frac{x+7}{y-4} + x^2$  for  $x = 3, y = -1$

10.  $3a - 4b + a - b$  for  $a = -2, b = 5$

11.  $6(a - 4b) - (a - b)$  for  $a = 1, b = -5$

12.  $3s^2 - 4t^2 + t - s$  for  $s = -1, t = -3$

**Classroom Expressions:**

Variable	Meaning	Numerical Value
B	The number of <b>B</b> oys in the classroom	21
G	The number of <b>G</b> irls in the classroom	18
P	The number of <b>P</b> encils each student has	3
L	The cost of a <b>L</b> unch for each student (in dollars)	6
S	The cost of a <b>S</b> nack for each student (in dollars)	2
M	The amount of time a student spends in <b>M</b> ath class each day (in minutes)	80
H	The amount of time a student spends on math <b>H</b> omework each day (in minutes)	30

**Write the Expression and find the numerical value of the following expressions. Be sure to include the proper units.**

13.  $M + H$

14.  $BS$

15.  $H(B + G)$

16. The total number of students in the class.

Expression:

17. The cost of snack for all the students in the class

Expression:

18. The total amount of time that all the girls in the class spend in Math class each day.

Expression:

**Review: Write the following verbal statements as an algebraic expression.**

19. Three more than the product of a number and four

20. The quotient of a number and twelve

Expression:

Expression:

Write the following algebraic expressions as a verbal statement.

21.  $3(x + 2)$

22.  $x^2 + 4 - 3x$