

**Assignment: Day 3 Algebraic Expressions**

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

Write the following verbal statements as an algebraic expression.

1. A number  $n$  subtracted by eight
2. Five more than a number  $p$
3. Three less than twice a number  $b$
4. The quotient of seven and a number  $x$
5. Two more than the product of a number  $t$  and 6
6. The difference of a number  $c$  and twelve
7. Four more than twice a number times three
8. Eight times the quantity of the two times a number and three.

Write the following algebraic expressions as a verbal statement.

9.  $\frac{x}{2} + 1$

10.  $4m$

11.  $7r + 3$

12.  $3(x + 2)$

13.  $x^2 + 4 \div x$

14.  $(2b + 3) - (4b \div 8)$

Classroom Coding:

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

What, if anything, does each of the following algebraic expressions represent? (Give the summary phrase, or say “no meaning”).

15.  $L + S$

16.  $BM$

17.  $GL + GS$

18.  $MH$

Write an algebraic expression for each of the phrases below.

19. The total cost of snacks for all the students in the class.

20. The amount of time that one student spends on math in a day (in class and on homework).

21. The total amount spent by all the students in the class on lunch and snack.

**Review: Simplify Completely**

22.  $5 \cdot 4 + 9 \cdot 1$

23.  $6 \cdot 2 \div (6 \cdot 4) - 1$

24.  $3 + 9 - (3 - 7)$

25.  $2x + 3 + 5x - x$

26.  $2a^2 + a + 3$

27.  $x^2 + x + 2x^2 - x$

28.  $2(r + 5) - 3r$

29.  $-3x - (2x - 2)$

30.  $6(a + 2) - 3(a + 2)$