NAME _____ DATE _____

Module 2 Writing and Simplifying Algebraic Expressions
Lesson 5 Evaluating Expressions

guided notes

Lesson Objectives

- Evaluate algebraic expressions for given numerical values.
- Use the order of operations.

An _____ is a combination of numbers, one or more variables, and operations.

Total bases are equal to _____.

_____ is the number of bases for *s* singles, _____ is the number of bases for *d* doubles, _____ is the number of bases for *t* triples, and _____ is the number of bases for *h* home runs.

Replace each variable in the expression for twenty-four singles, eight doubles, no triples, and twelve home runs.

1(_____) + 2(_____) + 3(_____) + 4(_____)

To evaluate an expression:

1. Replace each _____ in the expression with its value.
2. Simplify to find the value of the _____.

Evaluate $(-2)^n$ for $n = 3$. _____ $= -8$

Evaluate $(-2)^n$ for $n = 4$. _____ $= 16$

The order of operations can be remembered by the saying, _____ _____.

Evaluate expressions in _____ first, followed by _____. Next, _____ in order from left to right. Then, _____ in order from left to right.

Evaluate $\sqrt{a^2 + b^2}$ for $a = 3$ and $b = 4$. _____ $= \sqrt{9 + 16} =$

_____ $= 5$.

1. Evaluate $\sqrt[3]{x}$ for $x = -8$. _____

2. Evaluate $|3 - x|$ for $x = -8$. _____

The expression _____, is used to find how much compound interest a savings account would earn.

Replace the variables in the expression with its value. $P = 10{,}000$, $r = 0.06$, $n = 12$, and $t = 5$. _____ $= 13{,}488.50153$, or \$13,488.50.