

guided notes

NAME _____

DATE _____

Module 2 Writing and Simplifying Algebraic Expressions
Lesson 5 Evaluating Expressions

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.

$1(\text{_____}) + 2(\text{_____}) + 3(\text{_____}) + 4(\text{_____})$

To evaluate an expression:

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

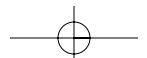
Evaluate $(-2)^n$ for $n = 3$. _____ = -8

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.

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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.

