

Name _____

Unraveling Algebra: Mastering the Art of Evaluating Expressions

Short Answer Key

1. Evaluating algebraic expressions involves substituting specific values for variables and performing the indicated operations to find the result.
2. To evaluate $3x + 2$ for $x = 4$, substitute 4 for x and perform the operations: $3(4) + 2 = 12 + 2 = 14$.
3. Example: Evaluating $2y^2 - 5y + 3$ for $y = 3$: $2(3)^2 - 5(3) + 3 = 18 - 15 + 3 = 6$.
4. Evaluating expressions is considered a fundamental skill in algebra because it allows us to find numerical values for mathematical statements and solve problems in various fields.
5. Evaluating expressions can be applied in real-world situations such as calculating costs, determining distances, and analyzing data in scientific experiments.

