



Evaluating Expressions and Order of Operations

Today's Standard

6.EE.A2c - Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). For example, use the formulas $V = s^3$ and $A = 6s^2$ to find the volume and surface area of a cube with sides of length $s = 1/2$.

Cues	Notes
Order of Operations	Order of Operations: Follow PEMDAS - Parentheses, Exponents, Multiplication/Division (left to right), Addition/Subtraction (left to right).
Evaluating Expressions	
Real-world Formulas	Evaluating Expressions: Substitute the given values for variables and perform the operations in the correct order.
Common Misconceptions	Real-world Formulas: Use formulas like $V = s^3$ for volume and $A = 6s^2$ for surface area in practical problems. Common Misconceptions: Misapplying order of operations, struggling with fractions/decimals.

Summary

Understanding and applying the order of operations is crucial for evaluating expressions correctly. Real-world formulas provide practical applications, and addressing common misconceptions helps solidify these skills.