

Acadia Team
Grade 7
Math Standards
Quarter 2
SY 2020-2021

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Unit 2: Expressions and Equations:

(7.EE.1, 7.EE.2, 7.EE.3, 7.EE.4)

7. EE.1 Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.

- Add, subtract, factor, and expand linear expressions with rational coefficients
- Use properties to generate equivalent expressions.
- Write an expression for a sequence of operations.

7. EE.2

Rewrite an expression in different forms in a problem context in order to shed light on the problem and how the quantities in it are related.

Rewrite expressions to explain how the quantities are related

- Formulate expressions to represent a scenario in a real-world context and vice versa.
- Rewrite expressions in different forms.
- Given a context, explain why using a particular form of expression is most efficient.

7.EE.3

Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically.

Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.

Solve problems about positive and negative rational numbers

- Use properties of operations to:
 - calculate numbers
 - convert between forms
 - assess the reasonableness of answers using mental computation and estimation strategies
- Use rational numbers in any form to solve multi-step problems.
- Use tools strategically to solve multi-step problems.
- Apply strategies for multi-step problems to solve real world problems.

7.EE.4.

Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.

Represent and solve problems involving equations and inequalities

- Use variables to represent quantities in a real-world or mathematical problem.
- Generate equations or inequalities to model a situation.
- Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p , q , and r are specific rational numbers.
- Solve equations of these forms fluently.
- Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach.
- Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$, where p , q , and r are specific rational numbers.
- Graph the solution set of the inequality and interpret it in the context of the problem.