



Dear Seventh Grade Families,

In Unit 6, students will work on the following seventh grade Common Core standards in the Expressions and Equalities (EE) domain.

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.
7.EE.4	<p>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.</p> <p>a. 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.</p> <p>b. 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.</p>

Unit 6 Concepts:

- Solve one-step equations
- Solve two-step linear equations
- Solve inequalities
- Understanding equations

Unit 6 Vocabulary:

- Equation
- Solution set
- Bar model
- Inverse
- Reciprocal
- Variable
- Like terms
- Inequality
- Closed point
- Open point
- Property of Inequalities

Inverse Operations:

<i>Addition</i>	←→	<i>Subtraction</i>
<i>Multiplication</i>	←→	<i>Division</i>

Like Terms:
 $4a + 5 + 2a - 3$

Ask questions like these to help your seventh grader as a productive mathematical thinker:

- Explain how a bar model helps to solve an equation.
- When graphing inequalities, what is the difference between a closed and open point?
- When would you use the reciprocal to help find a solution?

Need a review? Check out our lesson videos online!
swunmath.com/student-videos
 If you don't know the class's special name, ask your child's teacher.

We encourage you to talk with your child daily about what was learned in math class.
 Thank you for your support!