

Dear Seventh Grade Families,

In Unit 5, students will work on the following seventh grade Common Core standards in the Expressions and Equations (EE) domain.

7.EE.1	Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.
7.EE.2	Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related. <i>For example, <math>a + 0.05a = 1.05a</math> means that “increase by 5%” is the same as “multiply by 1.05.”</i>

### Unit 5 Concepts:

- Simplify, expand & factor expressions
- Model & write expressions

The diagram shows the equation  $52x^2 - 9x + 36 = 7m + 82$ . Labels with arrows point to various parts: 'Expression' points to the left side of the equation; 'Equation' points to the entire equation; 'Variable' points to the 'm' in the right side; 'Term' points to the '-9x' term; 'coefficient' points to the '7' in front of 'm'; and 'constant' points to the '82'.

### Unit 5 Vocabulary:

- Linear expression
- Like terms
- Constants
- Simplify
- Expand
- Greatest common factor
- Distributive property
- Linear expression
- Equivalent expression

### Distributive Property:

$$5(n + 9) = (5 \cdot n) + (5 \cdot 9)$$

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

- Name the parts of a linear equation.
- Which method do you prefer, the horizontal or vertical method for simplifying?
- How can areas be equal even when the rectangles are different sizes?
- Explain how to use a visual model for expressions.

### Need a review?

Have your student login to Swun Math to access lesson support videos.

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