Big Ideas Math: Green

Parent Newsletter

<u>Standards</u>

Common Core:

6.NS.4: Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor.

6.EE.2a: Write expressions that record operations with numbers and with letters standing for numbers.

6.EE.2c: 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).

6.EE.3: Apply the properties of operations to generate equivalent expressions.

6.EE.4: Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them).

<u>Key Term</u>

An *algebraic expression* is an expression that may contain numbers, operations, and one or more symbols.

Parts of an algebraic expression are called *terms*.

A symbol that represents one or more numbers is called a *variable*.

The numerical factor of a term that contains a variable is a *coefficient*.

A term without a variable is called a *constant*.

Expressions with the same value are *equivalent expressions*.

In an algebraic expression, *like terms* are terms that have the same variables raised to the same exponents.

Writing a numerical expression or algebraic expression as a product of factors is called *factoring the expression*.

Chapter 3: Algebraic Expressions and Properties

Essential Questions

How can you write and evaluate an expression that represents a real-life problem?

How can you write an expression that represents an unknown quantity?

Does the order in which you perform an operation matter?

How do you use mental math to multiply two numbers?

<u>Students will...</u>

Use order of operations to evaluate algebraic expressions.

Use variables to represent numbers in algebraic expressions.

Write algebraic expressions.

Use properties of operations to generate equivalent expressions.

Use the Distributive Property to find products.

Use the Distributive Property to simplify algebraic expressions.

Use the Distributive

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Property to produce equivalent expressions.

Solve real-life problems.

<u>Game</u>

A Trick for You

This is available online in the *Game Closet* at www.bigideasmath.com.



What's the Point?

The ability to use algebraic expressions and properties is very useful in real life for events like buying uniforms for a sports team. Have your student research how much it would cost to buy hats, socks, pants, and shirts for their school's softball team. What is the total cost for uniforms for all of the players on the team? Is there more than one way to set up the expression(s)?

The STEM Videos available online show ways to use mathematics in real-life situations. The Chapter 3: Shadow Drawings STEM Video is available online at www.bigideasmath.com.

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