Learning Targets

Inequalities, Expressions, and Equations

Lesson 1: Writing and Graphing Inequalities

- I can graph inequalities on a number line.
- I can write an inequality to represent a situation.

Lesson 2: Solutions of Inequalities

- I can determine if a particular number is a solution to an inequality.
- I can explain what it means for a number to be a solution to an inequality.
- I can graph the solutions to an inequality on a number line.

Lesson 3: Interpreting Inequalities

- I can explain what the solution to an inequality means in a situation.
- I can write inequalities that involves more than one variable.

Lesson 4: Finding Solutions to Inequalities in Context

- I can describe the solutions to a inequality by solving a related equation and then reasoning about values that make the inequality true.
- I can write an inequality to represent a situation.

Lesson 5: Efficiently Solving Inequalities

- I can graph the solutions to an inequality on a number line.
- I can solve inequalities by solving a related equation and then checking which values are solutions to the original inequality.

Lesson 6: Modeling with Inequalities

- I can use what I know about inequalities to solve real-world problems.

Lesson 7: Subtraction in Equivalent Expressions

- I can organize my work when I use the distributive property.
- I can re-write subtraction as adding the opposite and then rearrange terms in an expression.

Lesson 8: Expanding and Factoring

- I can organize my work when I use the distributive property.
- I can use the distributive property to rewrite expressions with positive and negative numbers.
- I understand that factoring and expanding are words used to describe using the distributive property to write equivalent expressions.

Lesson 9: Combining Like Terms (Part 1)

- I can figure out whether two expressions are equivalent to each other.
- When possible, I can write an equivalent expression that has fewer terms.

Lesson 10: Combining Like Terms (Part 2)

- I am aware of some common pitfalls when writing equivalent expressions, and I can avoid them.
- When possible, I can write an equivalent expression that has fewer terms.

Lesson 11: Combining Like Terms (Part 3)

- Given an expression, I can use various strategies to write an equivalent expression.
- When I look at an expression, I can notice if some parts have common factors and make the expression shorter by combining those parts.

Lesson 12: Balanced Moves

- I can add, subtract, multiply, or divide each side of an equation by the same expression to get a new equation with the same solution.

Lesson 13: More Balanced Moves

- I can make sense of multiple ways to solve an equation.

Lesson 14: Strategic Solving

- I can solve linear equations in one variable.

Lesson 15: All, Some, or No Solutions

- I can determine whether an equation has no solutions, one solution, or infinitely many solutions.

Lesson 16: How Many Solutions?

- I can solve equations with different numbers of solutions.

Lesson 17: When Are They the Same?

- I can use an expression to find when two things, like height, are the same in a real-world situation.

Lesson 18: Applications of Expressions

- I can write algebraic expressions to understand and justify a choice between two options.