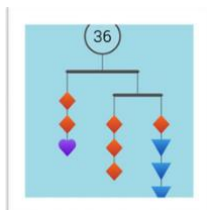




6th Grade Unit 5: Exploring Real-Life Phenomena through One-Step Equations & Inequalities



Overview:

In this fifth unit of sixth-grade math, students will explore one-step equations and inequalities as they build their problem-solving stamina. Students will demonstrate their ability to solve equivalent expressions and find possible solutions for inequalities with nonnegative numbers and solutions.

Learning Targets:

In Unit 5, students will:

- Solve one-step equations and inequalities involving variables when values for the variables are given.
- Determine whether an equation and inequality involving a variable is true or false for a given value of the variable.
- Write one-step equations and inequalities to represent and solve problems.
- Explain that a variable can represent an unknown number or any number in a specified set.
- Solve problems by writing and solving equations of the form $x + p = q$, $px = q$ and $xp = q$ for cases in which p , q and x are all nonnegative rational numbers.
- Recognize and generate inequalities of the form $x > c$, $x < c$, $x \geq c$, or $x \leq c$ to explain situations that have infinitely many solutions.
- Represent solutions of such inequalities on a number line.

Key Vocabulary: (linked to GA DOE Interactive Glossary)

Addition Property of Equality	Constant of Proportionality	Dependent Variable	Direct Proportion (Direct Variation)	Division Property of Equality	Equation
Independent Variable	Inequality	Inverse Operation	Multiplication Property of Equality	Proportion	Solution
Substitution	Subtraction Property of Equality	Term	Variable		

Supporting Resources:

<http://ctlslearn.cobbk12.org/>

<https://gavirtual.instructure.com/courses/34329>

[Undo Multiplication or Division](#)

[Create an Equation from a Word Problem](#)

[Undo Addition or Subtraction](#)

[Add and Subtract Equations](#)

[Multiply and Divide Equations](#)

