

Grade 6 Playlist: Solving One-Step Equations

Aligns with [CCSS.MATH.CONTENT.6.EE.B.7](#): Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p , q and x are all nonnegative rational numbers.

Related Standards

- [CCSS.MATH.CONTENT.6.EE.B.5](#): Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.
- [CCSS.MATH.CONTENT.6.EE.B.6](#): Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.
- [CCSS.MATH.CONTENT.7.EE.B.4.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. *For example, the perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width?*

PREVIEW



Objectives

In this module, you will learn and practice the following skills:

- Write one-step algebraic equations to solve problems, including real-world problems.
- Solve one-step addition equations with a variable.
- Solve one-step multiplication equations with a variable.

Let's get started!

Key Terms

- An **algebraic equation** is an equation that includes a variable.
- A **variable** is an unknown number.
- An **inverse operation** is an operation that undoes, or reverses, another operation.

PREVIEW

