



This is a resource from CPALMS (www.cpalms.org) where all educators go for bright ideas!
Resource ID#: 131072

Primary Type: Tutorial

Direct Link: <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions/cc-7th-2-step-equations/v/why-we-do-the-same-thing-to-both-sides-two-step-equations>

Solving two-step equations

This video shows how to solve a two step equation. It begins with the concept of equality, what is done to one side of an equation, must be done to the other side of an equation.

General Information

Subject(s): Mathematics

Grade Level(s): 8, 9

Intended Audience: [Educators](#), [Students](#)

Instructional Time: 10 Minute(s)

Suggested Technology: Computers for Students, Internet Connection, Speakers/Headphones

Keywords: equality, two-step equation, variable

Instructional Component Type(s): [Tutorial](#)

Instructional Design Framework(s): [Demonstration](#)

Resource Collection: Secondary Math specific existing tutorials

Source and Access Information

Contributed by: Garo Kalpakjian

Name of Author/Source: Khan Academy

District/Organization of Contributor(s): Leon

Access Privileges: Public

License: [CPALMS License - no distribution - non commercial](#)

Aligned Standards

Name	Description
	Solve linear equations in one variable. a. Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a and b are different numbers). b. Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.
MAFS.8.EE.3.7:	Clarifications: Fluency Expectations or Examples of Culminating Standards

Students have been working informally with one-variable linear equations since as early as kindergarten. This important line of development culminates in grade 8 with the solution of general one-variable linear equations, including cases with infinitely many solutions or no solutions as well as cases requiring algebraic manipulation using properties of operations. Coefficients and constants in these equations may be any rational numbers.

Examples of Opportunities for In-Depth Focus

This is a culminating standard for solving one-variable linear equations.