A scenic view of a town with several churches and a large hill in the background. The text is overlaid on the image.

Expressions and Equations: Linear Equations

8th Grade
Common Core

Term 2 Unit 4

8.EE.C.7a

8.EE.C.7b

Ms. Tully

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Understand a Linear Equation with One Solution

Understand a Linear Equation That Has No Solutions

Understand One-Solution Equations

Understand Infinite-Solution Equations

Determine the Number of Solutions an Equation Has By Simplifying

Solve Equations with Infinite Solutions

Understand a Linear Equation with Infinite Solutions

Predict How Many Solutions a Linear Equation Has

Understand No-Solution Equations

Determine the Number of Solutions an Equation Has By Recognizing Patterns

Solve Equations with No Solutions



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8.EE.C.7b

Use Inverse Operations
to Solve Equations

Use Inverse Ops to Solve
Equations of
Form $ax+b=c$

Solve Multi-step Equations:
Using the Distributive Property

Solve Equations with
Variables on Both Sides



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8.EE.C.7a

Number of Solutions to
Linear Equations

Number of Solutions to
Linear Equations
Ex 2

Number of Solutions to
Linear Equations
Ex 3



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8.EE.C.7b

Variables On Both Sides
(Equations 3)

Example 1:
Variables on Both Sides
(Multi-Step Equations - 1)

Example 2:
Variables on Both Sides
(Solving Equations 2)

Equation Special Cases

Ex 2: Multi-Step Equation

Solving Equations with the
Distributive Property

Solving Equations with the
Distributive Property - 2

Ex 1: Distributive Property
to Simplify
(Multi-Step Equations)

Ex 2: Distributive Property
to Simplify
(Multi-Step Equations - 2)

Ex 3: Distributive Property
to Simplify
(Equations with Variables
on Both Sides)



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8.EE.C.7a and 8.EE.C.7b

Linear Equations
with
One, Zero, or Infinite Solutions

Equations with Variables on Both Sides

Multi-Step Equations with Distribution



Shmoop Practice

8.EE.C.7a & 8.EE.C.7b

Consecutive Ages

Solutions to Equations

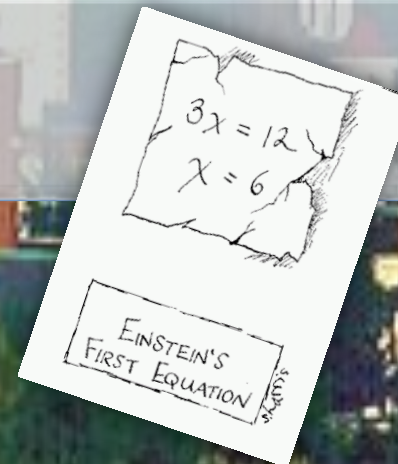
Solving Linear Equations
Using the Distributive Property

Solving Linear Equations
with Variables on
Both Sides of the Equation

Solving Equations
with Variables on Both Sides

Solving 2-Step Equations
Using Addition and Subtraction

Solving 2-Step Equations
Using Multiplication and Division



Miscellaneous Video Lessons

8.EE.C.7a & 8.EE.C.7b

How Do You Solve
For a Variable In a Fraction
Using Multiplication First?

How Do You Solve an Equation
with Variables on Both Sides
and Grouping Symbols?

How Do You Solve
an Equation with No Solution?

Math Shorts
Episode 20-
Solutions to Linear Equations

What Does It Mean When an
Equation Has No Solution?



IXL Practice

8.EE.C.7a and 8.EE.C.7b

Identities and Equations with No Solutions

Model and Solve Equations Using Algebra Tiles

Write and Solve Equations That Represent Diagram

Solve One-Step Linear Equations

Solve Two-Step Linear Equations

Solve Equations Involving Squares and Square Roots

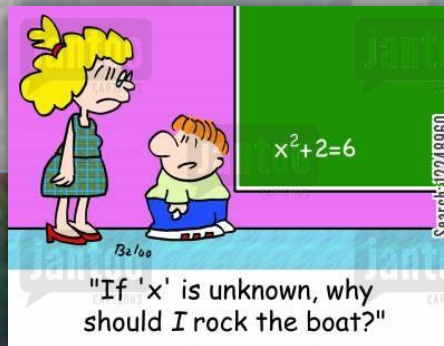
Solve Multi-Step Equations

Solve Equations Involving Like Terms

Properties of Addition and Multiplication

Distributive Property

Simplify Variable Expressions Using Properties



Songs and Videos

Algebra- Distributive Property
and Combining Like Terms
Part 1

Dance Steps to
Solving an Equation
Instructional Video

MATH DUDE: (Unit 1-3)
Solving Multi-Step Equations

Solving
Two-Step Equations

Solving For X
with
Bill Nye and Cynthia Rube

Combining Like Terms
by Shmoop

MATH DUDE: (Unit 1-2)
Solving One-Step Equations

Math Rap Dougie -
Teach Me How to Solve It

Solving Two-Step Equations Using
Multiplication and Division
by Shmoop

Video For
Combining Like Terms



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