

Topic: UNIT 3 SOLVING LINEAR EQUATIONS

Days: 15

Subject(s):

Grade(s):

Know:

Understand:

Do:

<p>Key Vocabulary</p> <p>Linear equations</p> <p>Literal equations</p> <p>Ratios and proportions</p>	<p>How a real world situation can be modeled by linear equation and a solution can be predicted.</p>	<p>Solve one-step linear equations</p> <p>Solve two-step linear equations</p> <p>Solve multi-step linear equations</p> <p>Solve linear equations with variables represented on both sides of the equal sign.</p> <p>Write and solve ratios and proportions</p> <p>Solve proportions using cross products techniques</p> <p>Solve percent proportion problems</p> <p>Solve (rewrite) equations and formulas in terms of other variables</p>
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Which standards are students learning in this unit?

MA.912.A.1.1 Know equivalent forms of real numbers (including integer exponents and radicals, percents, scientific notation, absolute value, rational numbers, irrational numbers).

MA.912.A.3.1: Solve linear equations in one variable that include simplifying algebraic expressions

MA.912.A.3.2: Identify and apply the distributive, associative, and commutative properties of real numbers and the properties of equality.

MA.912.A.3.3: Solve literal equations for a specified variable.

MA.912.A.3.5 Symbolically represent and solve multi-step and real-world applications that involve linear equations and inequalities.

MA.912.A.5.4: Solve algebraic proportions

MA.912.A.5.1: Simplify algebraic ratios

MA.912.A.10.1 Use a variety of problem-solving strategies, such as drawing a diagram, making a chart, guessing- and-checking, solving a simpler problem, writing an equation, working backwards, and creating a table.

MA.912.A.10.2 Decide whether a solution is reasonable in the context of the original situation.