

ALGEBRA I

LESSON

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Equations and Their Solutions
COMMON CORE ALGEBRA I



4, 1,000 of time is spent on Algebra learning how to solve equations and then solving them the various progressions. No, Algebra involves saying that you really need to understand what it means for something to "solve" an equation. First, let's make sure we understand what an equation is:

High school definition:
An equation is simply a statement about the equality of two expressions. In other words, anything that takes this form:
$$\text{Expression #1} = \text{Expression #2}$$

Example #1: Which of the following is not an equation?

(a) $2x + 1 = 4 + 6$ (b) $2(4x + 1)$

(c) $x^2 - 2x = 6$ (d) $1 = 5 + 4$

Equations can be either true, like (a) above, or false, like (d) above, depending on whether the two expressions are equal (true) or not equal (false).

Example #2: Consider the equation $2x + 3 = 10 + x$.

(a) Why can't you determine whether this equation is true or false?

(b) If $x = 1$, will the equation be true? Show me your work!

(c) Show that $x = 7$ makes the equation true. Remember to think very carefully always about your order of operations.



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Kirk Weiler, Gareth Metula



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