

# Lesson 6.2: Properties of Equality

## Targets

1. I can solve one-step equations with multiplication and division.
2. I can solve one step equations with addition and subtraction.

## How to Solve Equation in the Form $ax = b$

First attempt this problem on your own. Then watch the video and copy his notes.

*Solve each equation for the variable.*

Your attempt:

$$3x = 15$$

Video Notes:

$$3x = 15$$

$$2y + 4y = 18$$

$$2y + 4y = 18$$

## How to Solve Equation in the Form $\frac{x}{a} = b$

First attempt this problem on your own. Then watch the video and copy his notes.

*Solve for  $x$  and check your solution.*

Your attempt:

$$\frac{x}{3} = 14$$

Video Notes:

$$\frac{x}{3} = 14$$

## **Khan Activity: One-Step Equations with Multiplication and Division**

Complete this activity on Khan.

### Example of solving a one-step equation

First attempt this problem on your own. Then watch the video and copy his notes.

*Solve the equation for a.*

Your attempt:

$$a + 5 = 54$$

Video Notes:

$$a + 5 = 54$$

### Simple Equations: Examples of solving a variety of forms

First attempt this problem on your own. Then watch the video and copy his notes.

*Solve for the missing variable and check your solution.*

Your attempt:

$$x + 11 = 7$$

Video Notes:

$$x + 11 = 7$$

$$7x = 21$$

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$$\frac{5x}{12} = \frac{2}{3}$$

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$$q - 13 = -13$$

$$q - 13 = -13$$

$$z + 1.1 = 3.0001$$

$$z + 1.1 = 3.0001$$

$$21s = 3$$

$$21s = 3$$

### Khan Activity: One-Step Equations with Addition and Subtractions

Complete this activity on Khan.

### Exit Ticket

1. Have all your notes filled out above.
2. Complete the following Khan Academy Activities:
  - a. One-Step Equations with Multiplication and Division
  - b. One-Step Equations with Addition and Subtraction