

Name: _____

Date: _____

1.2 Solving Multi-Step Equations

Essential Question: _____

- To solve a multi-step equation, _____ each _____ of the equation, if necessary.

Then use _____ to _____ the variable.

- We will end up using reverse _____.

P: _____

E: _____

M/D: _____

A/S: _____

Show your work for the following problems:

EXAMPLE 1

Solving a Two-Step Equation

Solve $2.5x - 13 = 2$. Check your solution.

EXAMPLE 2

Combining Like Terms to Solve an Equation

Solve $-12 = 9x - 6x + 15$. Check your solution.

EXAMPLE 3 Using Structure to Solve a Multi-Step Equation

Solve $2(1 - x) + 3 = -8$. Check your solution.

Solving Real-Life Problems**EXAMPLE 4** Modeling with Mathematics

Use the table to find the number of miles x you need to bike on Friday so that the mean number of miles biked per day is 5.

Day	Miles
Monday	3.5
Tuesday	5.5
Wednesday	0
Thursday	5
Friday	x

EXAMPLE 5 Solving a Real-Life Problem

Your school's drama club charges \$4 per person for admission to a play. The club borrowed \$400 to pay for costumes and props. After paying back the loan, the club has a profit of \$100. How many people attended the play?