Review Lesson 1

NAME:

Multi-Step Equations

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Start by navigating to the Online Lesson for instructions.

Objective

Solve multi-step equations.

Introduced in:

Algebra 1: Principles of Secondary Mathematics Lesson 2

Multi-Step Equations

Fill in the notes as you watch the video in the Online Lesson.

equations are the foundation of Algebra 2.

It may be helpful to ______ your Plan for solving an equation if you are not sure how to get started or if the problem requires several steps to solve.

Clearing ______ by multiplying all terms by the least common denominator,
LCD, is a common strategy to use when solving equations.

Remember to combine _____ carefully and use _____
operations to solve.

your work either by hand or with a calculator.

Example 1

(b) Complete the example as you watch the video in the Online Lesson.

Solve.

$$\frac{1}{3}(2x+7) = -4$$

Plan

$$\cdot$$
(2)

$$+(7)$$

$$\cdot \left(\frac{1}{3}\right)$$

Example 2

(b) Complete the example as you watch the video in the Online Lesson.

Solve.

$$\frac{2}{3}x + \frac{2}{5} = \frac{8}{15}$$

Example 3

(b) Complete the example as you watch the video in the Online Lesson.

Solve.

$$8(2x-1)+6=11x+7-4$$

Practice

Solve.

1)
$$\frac{5}{8}x - \frac{8}{7} = \frac{15}{7}$$

2)
$$5 = \frac{3(4-x)}{4}$$

3)
$$\frac{5}{2} + \frac{x}{6} = 4x$$

4)
$$-6\left(\frac{2}{3}x-1\right) = \frac{1}{2}(7-3x)$$

Solve.

5)
$$\frac{x+14}{8} = 2(x-1)$$

6)
$$\frac{7}{8}x - \frac{2}{3} = \frac{5}{6}x - \frac{3}{4}$$

7)
$$\frac{3}{7}(1+x) - \frac{x}{7} + 1 = 1$$

8)
$$9x - 5 = -\frac{3}{4}(3 - x)$$

To continue, return to the Online Lesson.