

# Math 9 LG 9

## SOLVING LINEAR EQUATIONS – Part 2



### INTRODUCTION:

Equations are used in many real-life situations, so learning how to solve them is a very important skill. As well, learning a clear method for solving these equations is a key building block to help you to be successful in future math courses.



### LEARNING GUIDE EXPECTATIONS:

On the completion of this learning guide you will be able to:

- 1) Solve multi-step linear equations with rational coefficients.
- 2) Model and solve problems using linear equations with rational coefficients.



### EVALUATION:

You are ready to progress to the next learning guide when you can demonstrate your understanding of the above expectations. Please refer to your Mathematics 9 Marks Record Sheet to determine the assessment.



### RESOURCES NEEDED:



Math Links 9 Text

### LEARNING ACTIVITIES:



**Expectation #1: Solve multi-step linear equations with rational coefficients.**



1. [Watch and take notes on instructional video on Solving Multiple Step Equations](#)

\* Examples #4, 5, and 6 ONLY



2. In your math journal, complete the journal entry for LG 9 Expectation 1, Part A .



3. Now complete # 6(a, c), #7(b, c), #8(a, c), and #9(a, b) on page 327.



4. [Watch and take notes on instructional video on Solving Equations with Fractions \(Part 1\)](#)

\* Example #3 ONLY



5. In your math journal, complete the journal entry for LG 9 Expectation 1, Part B .



6. Now complete # 6(b, d), #7(a), #8(b, d), and #9(c, d) on page 327.



7. [Watch and take notes on instructional video on Solving Equations with Fractions \(Part 2\)](#)

\* Examples #2 and 3 ONLY



8. In the Math Links 9 text, work through example 3 on pages 325.  
Now complete # 10, 11, and 12 page 327.



**Expectation #2: Model and solve problems using linear equations with rational coefficients.**



1. In your math journal, complete the journal entry for LG 9 Expectation 2.



2. In the Math Links 9 text, work through example 3 on pages 308.  
Now complete # 13, 14, and 17 on page 312 and #12, 17, 18, and 19 on page 320.

REVIEW AND CHALLENGE



1. In the Math Links 9 text, complete Chapter 8 Review pages 330-331 #8, 12, 17, 18.

2. In the Math Links 9 text, do Chapter 8 Practice Test pages 332-333 #3, 4, 9, 10, 12.