

# Math 9A LG 8 & 9

## SOLVING LINEAR EQUATIONS



### 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) model and solve problems using linear equations of various forms 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 9A Marks Record Sheet to determine the assessment.



### RESOURCES NEEDED:



Math Links 9 Text

### LEARNING ACTIVITIES:



**Expectation #1: Demonstrate an understanding of how to model and solve problems using linear equations of various forms with rational coefficients.**



1. In your math journal, complete the journal entry for guides 8&9 Expectation 1 Part A.



2. In the Math Links 9 text, work through example 2 on page 297. Now complete # 8 on page 301.

3. In the Math Links 9 text, work through example 1 on page 294, focusing on Method 2. Now complete # 6 on page 301.

4. In the Math Links 9 text, work through example 3 on page 298. Now complete # 10 on page 302.

5. In the Math Links 9 text, work through example 4 on page 299. Now complete # 13, 14 and 19 on page 302.



6. In your math journal, complete the journal entry for guides 8&9 Expectation 1 Part B.



7. In your math journal, complete the journal entry for guides 8&9 Expectation 1 Part C.



8. In the Math Links 9 text, complete # 9, 11 on page 311.

9. In the Math Links 9 text, work through example 1 (part b only) on page 307.



10. In your math journal, complete the journal entry for guides 8&9 Expectation 1 Part D.

11. In the Math Links 9 text, work through example 3 on page 308. Now complete # 13, 14, 22 on page 312.

12. In the Math Links 9 text, work through example 1a on pages 315-316. Now complete # 1, 6 on pages 318 - 319.

13. In the Math Links 9 text, work through example 1ab on page 316. Now complete # 8, 10 on pages 319 - 320.

14. In the Math Links 9 text, work through example 2 on page 317.

Do #12 (note that the word 'mean' in this question is another word for average),  
Now complete #14, 17, 18 on pages 320 - 321.



15. In your math journal, complete the journal entry for guides 8&9 Expectation 1 Part E.



16. In the Math Links 9 text, work through example 1 on page 323.  
Now complete # 6 on page 327.

17. In the Math Links 9 text, work through example 2 on page 324.  
Now complete # 8 on page 327.

18. In the Math Links 9 text, work through example 3 on pages 325.  
Now complete # 10, 15 on pages 327 -328.

## REVIEW AND CHALLENGE



1. In the Math Links 9 text, complete Chapter 8 Review pages 330-331 #1, 5, 10, 12, 15, 17, and 19.
2. In the Math Links 9 text, complete Chapter 8 Practice Test pages 332-333 #1, 3, 5, 9, 12 and 14.