

# Foundations of Math 10 LG 4

## MULTIPLYING POLYNOMIALS



### INTRODUCTION:

Polynomials have helped us represent and solve real-life problems....Check out pages 202-203.



### LEARNING GUIDE EXPECTATIONS:

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

- 1) Explain how multiplication of binomials is related to area and to the multiplication of two-digit numbers.
- 2) Multiply polynomials.



### 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 10 Foundations Marks Record Sheet to determine the assessment.



### RESOURCES NEEDED:



Mathematics 10 Text



Algebra Tiles

### LEARNING ACTIVITIES:



**Expectation #1: Explain how multiplication of binomials is related to area and to the multiplication of two-digit numbers.**

**Expectation #2: Multiply polynomials.**



1. [Watch and take notes on instructional video on Multiplying Polynomials with Algebra Tiles.](#)



2. [Watch and take notes on instructional video on Multiplying Polynomials.](#)



3. Sign out the Algebra Tiles kit from the Science Kiosk



4. Read page 204 and complete Investigate Multiplying Polynomials #1-5.

5. Read Link the Ideas on page 205.



6. In your Math Journal, define polynomial, binomial and distributive property. Use an example to illustrate.
7. Work through Example 1 on page 206 and complete #1, 2 and 3 on page 209.
8. Work through Example 2 on page 207 and complete #4 on page 209.
9. Work through Example 3 on page 207 and complete #6 on page 210.
10. Work through Example 4 on page 208 and complete #7 on page 210.
11. Read Key Ideas on page 209.



12. In your Math Journal, describe how to multiply polynomials using two methods:  
Method 1: Algebra tiles.  
Method 2: The Distributive Property.  
Use an example to illustrate both methods.
13. Complete pages 210-211 #5, 10, 12, 13, 15, 16, 18.
14. For extra practice, click [here](#). For the answers to the extra practice, click [here](#).

## REVIEW AND CHALLENGE



1. Complete Chapter 5 Review page 252 #1-5.

## PRACTICE QUIZZES

[Practice quiz #1 \(only do questions #1-4\)](#)

[Practice quiz #2](#)