

Math 10 Pre-Calculus 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 Pre-Calc 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 #2](#)