

Math 9 LG 6

MULTIPLYING AND DIVIDING POLYNOMIALS



INTRODUCTION:

The idea of multiplying and dividing polynomials may seem a bit scary but, in this LG (with the help of algebra tiles), you'll see that it's not.



LEARNING GUIDE EXPECTATIONS:

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

- 1) model, record and explain the operations of multiplication and division of 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 9 Marks Record Sheet to determine the assessment.



RESOURCES NEEDED:



Math Links 9 Text

Algebra Tiles Kit

LEARNING ACTIVITIES:



Expectation #1: Model, record, and explain the operations of multiplication and division of polynomials.



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



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



3. In the Math Links 9 text, work through Example 1 on page 255. Now complete # 3, 4, 6-8 on page 260. You can use an algebra tile kit from the science kiosk to help you. You will need to draw your answers in your notebook, using the tiles as a model.

4. In the Math Links 9 text, work through Example 2 on pages 256. Now complete #9 on page 260, and # 17 on page 262.



5. In your math journal, complete the journal entry for LG 6 Expectation 1 Part A (Multiplying Monomials).



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



7. [Watch and take notes on instructional video on Dividing Polynomials Algebraically](#)



8. In the Math Links 9 text, work through Example 3 on page 256-257. Now complete #11,12,13,15,16 on page 261.

You can use your algebra tile kit from the science kiosk to help you. You will need to draw your answers in your notebook, using the tiles as a model.

9. In the Math Links 9 text, work through Example 4 on pages 258. Now complete #18 & 19 on page 262.



10. In your math journal, complete the journal entry for LG 6 Expectation 1 Part B (Dividing Monomials).



11. In the Math Links 9 text, work through Example 2 on page 266.

Now complete #8-11 on pages 269-270. You may want to use algebra tiles (sign them out from the science kiosk).

12. In the Math Links 9 text, work through Example 3 on pages 267.

Now complete #12, 13, 14, 17, 18 on page 271.



13. In the math journal, complete the journal entry for LG 6 Expectation 1 Part C (Distributive Property).



14. In the Math Links 9 text, work through Example 1 on page 273. You may want to use algebra tiles (sign them out from the science kiosk) to help you complete #4 -7 on pages 275-276.

15. In the Math Links 9 text, work through Example 2 on page 274.

Now complete #8, 9, 12, 13 on page 276.

REVIEW AND CHALLENGE

***Please note: You may want to use algebra tiles (sign them out from the science kiosk) to help you complete the following review questions:



1. In the Math Links 9 text, complete Chapter 7 Review pages 278-279 #5-9, 12-17.

2. In the Math Links 9 text, complete Chapter 7 Practice Test, pages 280-281, #1-7, #9-15.