## Math 9 LG 6 MULTIPLYING AND DIVIDING POLYNOMIALS



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.

## **V** LEARNING GUIDE EXPECTATIONS:

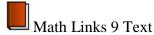
On the completion of this learning guide you will be able to:

1) model, record and explain the operations of multiplication and division of polynomials.



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.





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.

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