

# Math 9A LG 14

## LINEAR RELATIONS



### INTRODUCTION:

Do you know where the sailboat on the back of a dime comes from? ... Check out pages 206-207.



### LEARNING GUIDE EXPECTATIONS:

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

- 1) recognize a linear pattern arising from a problem.
- 2) graph and analyze linear relations.



### 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



THSS Math 9A Learning Guides and Math 9 Journal Entries Package



Math Links 9 Practice and Homework Book



Ruler



Graph Paper

## LEARNING ACTIVITIES:



### **Expectation #1: Recognize a linear pattern arising from a problem.**



1. In the Math Links 9 text, complete the *Explore Patterns* activity on page 210-211.
2. In the Math Links 9 text, work through Example 1 on pages 212-213. Now complete #5 on page 217.
3. In the Math Links 9 text, work through Example 2 on pages 214-215. Now complete #7, 10 on pages 217-218.



4. Read Key Ideas on page 216. In your math journal, complete the journal entry for LG14 Expectation 1.



### **Expectation #2: Graph and analyze linear relations.**



1. In the Math Links 9 text, complete *Explore Using a Graph to Solve Problems* activity on pages 220-221.
2. In the Math Links 9 text, work through Example 1 on page 222. Now complete #4, 7 on pages 226-227.
3. In the Math Links 9 text, work through Example 2 on pages 223-224. Now complete #10, 11 on page 227



4. Read Key Ideas on page 225. In your math journal, complete the journal entry for LG14 Expectation 2a.



5. In the Math Links 9 text, complete *Explore Graphs of Linear Equations* activity questions #1, 2 on page 231.
6. In the Math Links 9 text, work through Example 1 on page 232-234. Now complete #4, 6 on pages 239-240.
7. In the Math Links 9 text, work through Examples 2 & 3 on pages 234-237. Now complete #8, 11, 12 on pages 240-241.



8. Read Key Ideas on page 238. In your math journal, complete the journal entry for LG13 Expectation 2b.

## REVIEW AND CHALLENGE



1. In the Math Links 9 text, complete Chapter 6 Review pages 244-245 #1-5, 6, 9, 11, 14.