

# Math 9A LG 12/13

## SIMILARITY

### INTRODUCTION:

Did you ever build a model of something? ... Check out pages 126 & 127.

### LEARNING GUIDE EXPECTATIONS:

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


- 1) demonstrate an understanding of similarity of triangles
- 2) demonstrate an understanding of similarity of polygons

### 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

 THSS Math 9 Learning Guides and Math 9 Journal Entries Package

 Ruler

 Protractor

 Graph Paper

 Tracing paper

## LEARNING ACTIVITIES:



**Expectation #1: Demonstrate an understanding of similarity of triangles.**



**[1. Watch and take notes on instructional video on Similarity.](#)**



2. In the Math Links 9 text, complete *Explore How to Identify Similar Triangles* activity on page 146.
3. In the Math Links 9 text, work through Example 1 on page 147. Now complete #4, 6, 7 on pages 150-151.
4. In the Math Links 9 text, work through Example 2 on pages 148-149. Now complete #9, 10 on page 151.



5. Read Key Ideas on page 150. In your math journal, complete the journal entry for LG12 Expectation 1.



6. In the Math Links 9 text, complete #12, 13, 14 on pages 151-152.



**Expectation #2: Demonstrate an understanding of similarity of polygons.**



1. In the Math Links 9 text, complete *Explore How to Identify Similar Polygons* activity on page 154.
2. In the Math Links 9 text, work through Example 1 on page 155. Now complete #3 on page 157.
3. In the Math Links 9 text, work through Example 2 on pages 156. Now complete #5 on page 157.



4. Read Key Ideas on page 156. In your math journal, complete the journal entry for LG12 Expectation 2.



5. In the Math Links 9 text, complete #12, 13 on pages 158.

## REVIEW AND CHALLENGE



1. In the Math Links 9 text, complete Chapter 4 Review pages 160-161 #13, 14, 15, 16, 18.