Math 9 LG 12
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, 15, 16, 20 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, 6 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 #9, 10a, 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.