Math 9 LG 13
SCALE FACTORS AND METRIC CONVERSIONS

INTRODUCTION:

How do architects create plans? … Check out page 129.

LEARNING GUIDE EXPECTATIONS:

On the completion of this learning guide you will be able to:
1)   Draw and interpret scale diagrams of 2-D shapes.
2)   Convert between metric units.

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

Math Links 9 Practice and Homework Book

Ruler

Protractor

Graph Paper

Tracing paper

LEARNING ACTIVITIES:

Expectation #1: Draw and interpret scale diagrams of 2-D shapes.

1. Watch and take notes on instructional video on Scale Factor.

2. In the Math Links 9 text, work through Example 1 on pages 131-132. Now complete #4, 5 on page 136.

3. In the Math Links 9 text, work through Example 2 on pages 133-134. Now complete #6, 7, 8 on pages 136.

4. Read Key Ideas on page 135. In your math journal, complete the journal entry for LG13 Expectation 1a.

5. In the Math Links 9 text, complete #9, 12, 13, 14 on page 137.

Expectation #2: **Convert from one metric unit to another.**

1. In the Math Links 9 text, complete "Show you Know" on page 141.
   (Use conversion: 1km = 100 000 cm).
2. Read and understand "Key Ideas" on page 142.
3. In the Math Links 9 text, complete Chapter 4 Review pages 142 – 143 complete # 5, 6, 7, 12, 13, 16, 17, 19, 21.
   (Use Conversions: 1m = 100 cm and **1cm = 10 mm)**

REVIEW AND CHALLENGE

1. In the Math Links 9 text, complete Chapter 4 Review pages 160-161 # 5, 9, 10, 11, 12.