

Math 9A LG 14

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 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 and 12 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: $1\text{km} = 100\,000\text{cm}$).

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, 19

(Use Conversions: $1\text{m} = 100\text{cm}$ and $1\text{cm} = 10\text{mm}$)

REVIEW AND CHALLENGE



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