Math 262 Reading Guide

Section 1.3

Read Section 1.3 and answer the following questions. *Hand in this worksheet at the next class.*

1. Explain in your own words why there are 12 possible choices in Example 1.18.

2. What is the **Fundamental Counting Principle**?

3. Explain in your own words why there are 72 possible choices in Example 1.20.

4. Modify the tree diagram in Figure 1.7 to illustrate the situation in which the first clinic has three pediatricians and the second clinic has four pediatricians (as mentioned at the end of Section 1.3.2).

5. What is a **permutation**?

6. How is a **combination** different from a permutation?