Math 262 Reading Guide

1. Read *The Secret to Raising Smart Kids*, by Carol Dweck, at the following address:
   http://www.scientificamerican.com/article/the-secret-to-raising-smart-kids1/

   Then answer the following questions:

   (a) What are three ways that students with a growth mind-set approach challenges differently than students with a fixed mind-set?

   (b) How might you cultivate a growth mindset in Math 262?

2. Suppose you have some identical cookies to distribute to your friends. Each friend may receive no cookie, one cookie, or many cookies. How many ways can you distribute the cookies in each of the following cases?

   (a) You have 3 cookies and 2 friends.

   (b) You have 4 cookies and 2 friends.

   (c) You have 5 cookies and 2 friends.

   (d) You have 3 cookies and 3 friends.

   (e) You have 4 cookies and 3 friends.

   Make a conjecture about how many ways you could distribute 7 cookies to 4 people.