**HW #1, due September 1st**

Read Chapter 1  
Problem Set 1: 1-17  
Problem Set 2: 1-8  
Problem Set 3: 1-10

**Extra Problems for HW #1**

**Problem 1:** How many positive integers are factors of the integer $3^5 \cdot 5^2 \cdot 7 \cdot 11^3 \cdot 17^2$?

**Problem 2:** How many positive integers have both of the following properties?  
  i. The digits are distinct.  
  ii. The digits 3, 4, and 8 do not occur.