MA 202 Section 004 - Problem Set 1
Spring 1999

1. If you have nine coins with a total value of 48 cents, how many of each kind of coin do you have?

2. Start with a positive integer. If the number is even, divide it by 2. If it is odd, multiply it by 3 and add 1. Continue this process and make a conjecture about what will happen no matter what the starting number.

3. Smarty knows a number. Three more than twice the number is seven less than four times the number. What is the number?

4. Four married couples belong to a bridge club. The wives are named Kitty, Sarah, Josie and Anne. Their husbands' names are (in some order) Floyd, Gus, Will and David.

   Will is Josie's brother.
   Josie and Floyd dated some, but then Floyd met his present wife.
   Kitty is married to Gus.
   Anne has two brothers.
   Anne's husband is an only child.

   Who is married to whom?