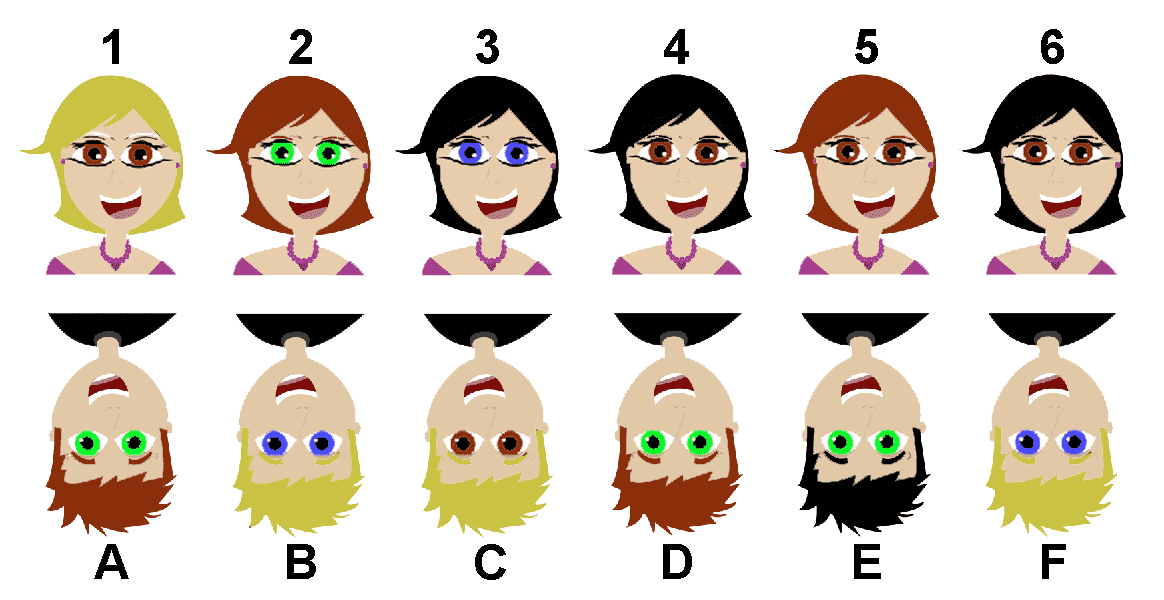
**June 2011 - Matchmaker**



The Matchmaker was an honored profession in past cultures, serving the valuable purpose of pairing off men and women in hopes of a long and successful relationship.  The Matchmaker would carefully consider the characteristics of each partner to determine which pairs would be compatible.

Figure 1 shows six men and six women each with varying hair color and eye color.  A man or woman will only accept a partner that has at least one of these traits in common.  For example, Man A and Woman 5 would make a matching pair because they have at least one trait in common (same hair color).  However Man A and Woman 1 would not make a matching pair because they do not have any traits in common.

**Question:  What pairings of men and women allow for everyone to have a partner with at least one trait in common?  (There are several correct answers.)**