## Math 1660

- 1. Deal five cards from a standard deck of 52 cards. How many hands are possible?
- 2. The player, in blackjack, gets two cards. How many player blackjack hands are possible?
- 3. The dealer, in blackjack, gets one card face down and another face up. How many dealer blackjack hands are possible?
- 4. The recent St. Louis school board election had 7 candidates. Voters were asked to choose three of them. How many ballots were possible? (More realistically, can you answer this if voters may decide to choose less than three candidates?)
- 5. The Missouri Lotto game produces six different numbers from 1-44. How many Lotto results are possible?
- 6. (6.3 # 34) Suppose that a department contains 10 men and 15 women. How many ways are there to form a committee with six members if it must have more women than men?
- 7. How many subsets of a set with 100 elements have more than two elements?