Quiz 6.4: Permutations and combinations

1. In how many ways can the letters of the word GLACIER be arranged?

2. In how many orders can six books be arranged on a shelf?

3. In how many ways can a panel of 12 jurors and 2 alternate jurors be selected from a pool of 30 prospective jurors?

4. How many "flushes" are there in a standard deck of cards?