SATPREP Name_____ ID: 1

Assignment : Permutation and Combination

Date_____

Find the number of possibilities in each scenario.

1) The student body of 215 students wants to elect a president and vice president.

2) The batting order for nine players on a 11 person team.

3) 5 out of 17 students will ride in a car instead of a van

4) The student body of 55 students wants to elect four representatives.

State if each scenario involves a permutation or a combination. Then find the number of possibilities.

5) There are 10 people at a meeting. They each shake hands with everyone else. How many handshakes were there?

6) A team of 14 basketball players needs to choose a captain and co-captain.

7) There are 45 applicants for two Software Tester positions.

8) The student body of 35 students wants to elect three representatives.

9) Cody has homework assignments in seven subjects. He only has time to do four of them.

10) There are 210 people at a meeting. They each give a Valentine's Day card to everyone else. How many cards were given?

Answers to Assignment : Permutation and Combination (ID: 1)

1) 46,010
2) 19,958,400
3) 6,188
4) 341,055
5) Combination; 45
6) Permutation; 182
7) Combination; 990
8) Combination; 6,545
9) Combination; 35
10) Permutation; 43,890