

Combinations

May 2, 2009

Exercises

1. Evaluate each:-
 - (a) $8!$
 - (b) $11!$
 - (c) 7C_5
 - (d) ${}_3C_0$
 - (e) ${}_{12}C_4$
2. How many different ways can a committee of four people be chosen from a group of ten people
3. How many ways can a person select two tapes, three records and three compact disks from eight tapes, six records, and ten compact disks?
4. How many ways can a student select five questions from an exam containing nine questions? How many ways are there if the student must answer the first question and must answer the last question?
5. There are seven women and five men in a department. How many ways can a committee of four people be selected if there must be two men and two women on the committee. How many ways can this committee be selected if there must be at least two women on the committee?