

5. There are ten new cars at a dealership. They are all different colours. The owner of the dealership wants to place six of them in the show room.
- a) [2] How many ways can they be arranged in the show room if order matters?

 - b) [2] How many ways can the group of six be chosen if order doesn't matter?

 - c) [2] Explain the difference in the numbers.
6. [2] The science club members are to work in pairs on an experiment. If there are eight members present, in how many ways can the pairs be formed?