Combination - grenping | Selection L- Combination Wednesday, March 2, 2022 10:03 AM Permutation - Arrangement Combination: A Combination is a Selections of things taking some or all of them at a time. The Combination n C'h of n different things taking it at a time is denoted by ncz or c(n, 2) os (n) and gover by C(nx) $\begin{pmatrix} \eta \\ z \end{pmatrix}$ 7 = (n-2.12) (8) > 4=@ $n = \frac{n}{n-1} > \frac{n}{n-2} = \frac{7}{2}$ O many no (2) $n_{c} = \left(\frac{n}{n-s}\right)\frac{1}{s} = \frac{n}{s} \cdot \frac{1}{s}$ =) np = ncr.12 $\frac{\eta}{\zeta_0} = \frac{\eta}{\eta} \qquad \frac{\eta}{\eta} = \frac{\eta}{\eta} \qquad \frac{\eta}{\eta} = \frac{\eta}{\eta}$ $\frac{\eta}{\zeta_0} = \frac{\eta}{\eta} \qquad \frac{\eta}{\eta} = \frac{\eta}{\eta} \qquad \frac{\eta}{\eta} = \frac{\eta}{\eta} \qquad \frac{\eta}{\eta} = \frac{\eta}{\eta}$ $\frac{\eta}{\zeta_0} = \frac{\eta}{\eta} \qquad \frac{\eta}{\eta} = \frac{\eta}{\eta} \qquad \frac{\eta}{\eta} = \frac{\eta}{\eta}$ $\frac{n}{c} = \frac{n}{2}$ then either p = q or p + q = nIn how many ways a team of 11 players be selected out No. of player = 15 15 players, alongs Two particular players and 2 hono many of them do not have two particular players. No. of Teams = 15

1) No. of ways of selecting Two particules = 1 = 15.14.13.16.19

(i) No. of bours of selecting Two particular = 1

No. of n 12 Semany 9 player out of
$$13 = \frac{13}{5}$$

F. D. c $1 \times 13c_g = \frac{113}{14 \cdot 19} = \frac{13 \cdot 13 \cdot 11 \cdot 10}{14 \cdot 19 \cdot 19} = \frac{13 \cdot 13 \cdot 11 \cdot 10}{14 \cdot 19 \cdot 19} = \frac{13 \cdot 13 \cdot 11 \cdot 10}{14 \cdot 19 \cdot 19} = \frac{13 \cdot 13 \cdot 11 \cdot 10}{14 \cdot 19 \cdot 19} = \frac{13 \cdot 13 \cdot 11 \cdot 10}{14 \cdot 19 \cdot 19} = \frac{13 \cdot 13 \cdot 11 \cdot 10}{14 \cdot 19 \cdot 19} = \frac{13 \cdot 13 \cdot 11 \cdot 10}{14 \cdot 19 \cdot 19} = \frac{13 \cdot 13 \cdot 11 \cdot 10}{14 \cdot 19 \cdot 19} = \frac{13 \cdot 13 \cdot 11 \cdot 10}{14 \cdot 19} = \frac{13 \cdot 13 \cdot 11}{14 \cdot$

$$= \frac{13}{2} = \frac{13 + 2. \text{ M}}{2. \text{ M}} = 13.6 = 78$$

There are 15 people in a committee. How many ways are there to group these 15 people into 3, 5, and 4?

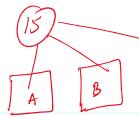
1317 How

a) 846

b) 2468

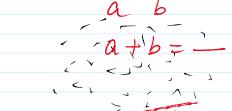
c) 1282

d) 1317



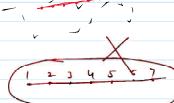
No. of ways 3 ont of 9 =

(1) No. of Angular points are given = n



(a) How Many St. lines

No. of St. lines = 2-12+1



@ No. of Onederlated = Zy-Zy

