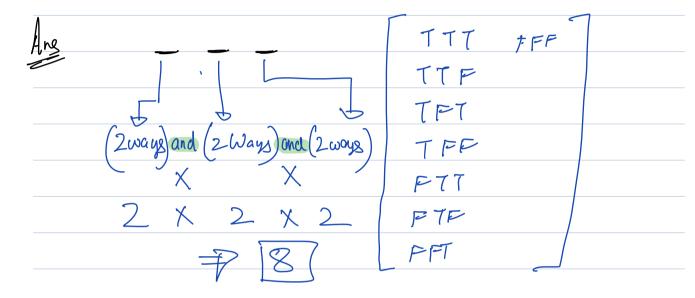
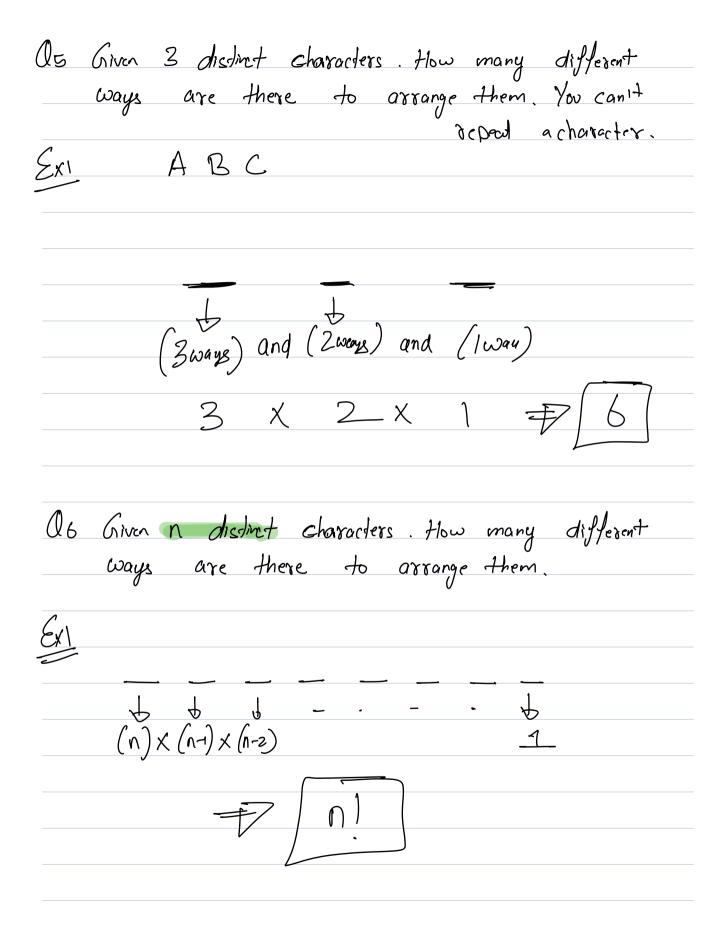
| Multiplication & Addition Rule |
|--------------------------------|
|--------------------------------|

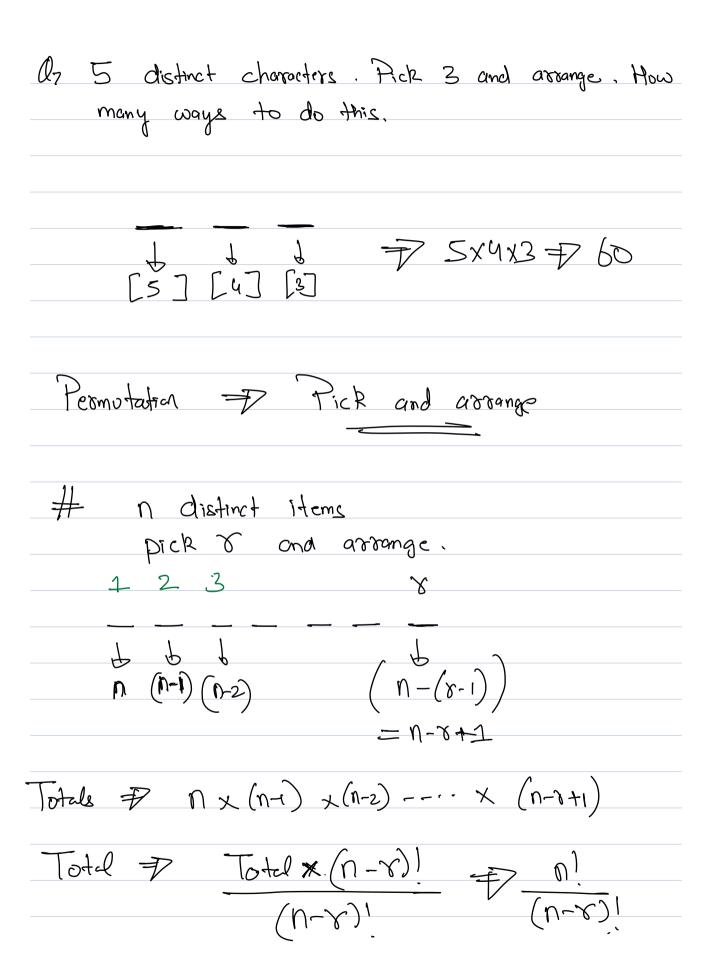
Q You have 3 Overtions. Answer is True or False. How many ways are their to fell the answer.



Oz Given 10 Girls and 10 Boys, how many different ways are there to pair them.

| 03 H | low many               | ways are             | ther to                | travel  | from                      |               |
|------|------------------------|----------------------|------------------------|---------|---------------------------|---------------|
|      |                        | o I pario.           |                        |         |                           |               |
|      | Banga                  | lor to Dell          | v) and                 | (Delh   | to France)                |               |
|      |                        | 3                    | X                      | Ц       |                           |               |
|      |                        |                      |                        |         | 2                         |               |
| 04 F | tow many<br>anyalore t | ways croe<br>Trance. | thex to                | Aravel  | Jon                       |               |
|      | Bangalore              |                      | Delhi<br>Mumbai        | Fyan    | nce                       |               |
|      |                        |                      |                        |         |                           |               |
| Bang | j-France)              | ₹ Tr                 | avel via Del<br>3×4=12 | Ohi) OR | Travelvi<br>Mumba<br>2×3= | ι<br>; )<br>6 |
|      |                        |                      |                        | 2+6     |                           |               |





$$\frac{(u-x)_i}{u_i} \implies ubx$$

Exi 5 n=5, r=3

7 5! 7 120 7 60 2!

Permotation: n distinct stems & npg

| Combination | ١ |
|-------------|---|
|             | _ |

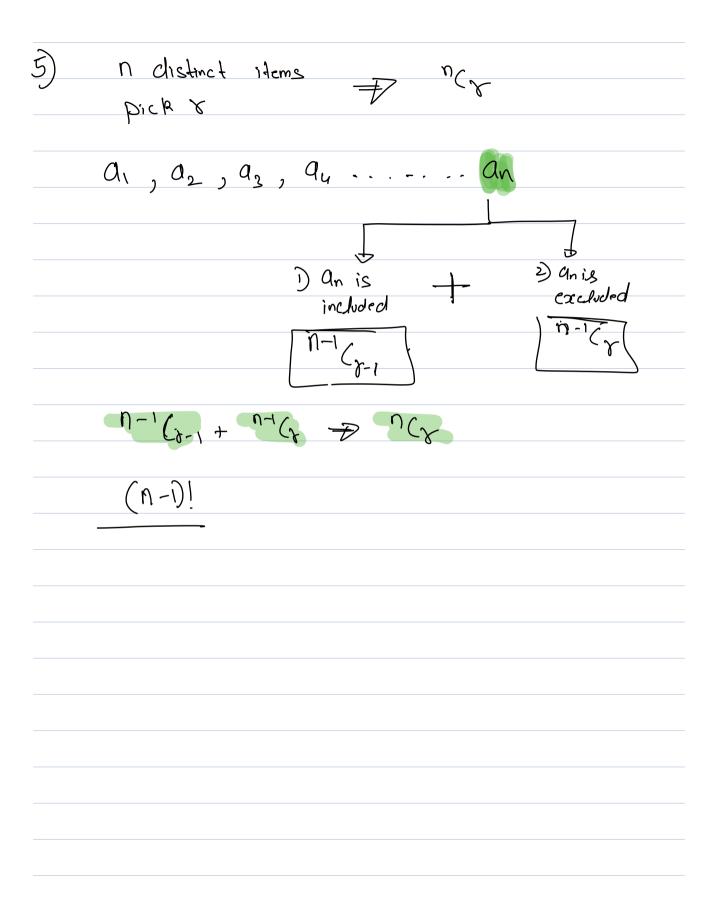
| a Given 3 distinct characters. How many ways  |
|---|
| are there to choose 2 characters.   |
| a fe Trick to crise 2 magazita.   |
|   |
| $ABC \Rightarrow ABBC AC$   |
| P P   |
|   |
| Combination = 3   |
| Permutation 76 Combination 7 Permutation  |
| no of ware )  |
| adjunce Videms  |
| <b>型</b> 人、   |
| n items pick r  |
| 1) 116mZ PICP 0   |
| · · · · · · · · · · · · · · · · · · ·   |
| no of Combination = comb  |
|   |
| no of Permutation => (omb x 8)  |
| (omb  |
| 0) = (omb x)  |
| (h-8) = Comb x 8!   |
|   |
|   |
| $\frac{n!}{(n-\tau)!  \tau!} = \frac{1}{2}  (omb) = \frac{1}{2} \left[ \frac{n}{2} \right]$ |
| (1)-03'.0,  |

$$\frac{D_i \times O_i}{U_i} \longrightarrow 1$$

$$\left[ a_{1}, a_{2}, a_{3} \ldots a_{n} \right] \Rightarrow 2$$

$$\binom{n}{n} + \binom{n}{1} + \binom{n}{2} - \cdots - \binom{n}{n} + \binom{n}{2}$$

$$\frac{2}{2}$$
 a b c  $\Rightarrow 2^3 \Rightarrow 8$ 

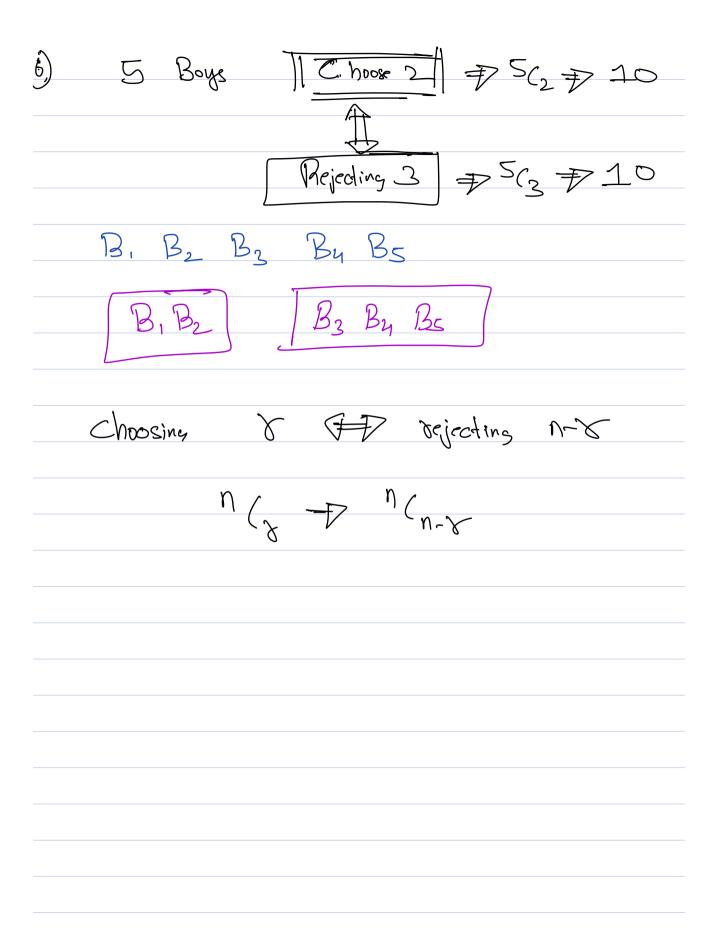


$$\frac{(V-\lambda)_i}{(V-\lambda)_i} \left(\frac{(y-i)_i}{(y-i)_i} - \frac{(U-\lambda)_i}{(U-i)_i} \right) = \frac{(U-\lambda)_i}{U_i} \lambda I_i$$

$$\frac{(u-x)\times x}{(u-i)}$$

$$\frac{(u-x)\times x}{1}$$

$$\frac{(\nu-\lambda-1)_i \times (\mu-i)_i}{(\nu-1)_i} \left[ \frac{(\nu-\lambda) \times \lambda}{\nu} \right] = \frac{(\nu-\lambda)_i \times \lambda_i}{\nu}$$



How to rode 
$$\frac{n}{r}$$
 $r = 50$ ,  $r = 20$ 

#  $50c_{20} = \frac{1}{r}$ 
 $r = 50$ ,  $r = 20$ 

They will ask  $r = 20$ 

#  $r = 6$ 
 $r = 3$ 
 $r = 6$ 

Thivial Cor: 
$$D \cap C_0 = 1$$
  $n \ge 0$ 

$$D \cap C_0 = 1$$

$$D \cap C_$$





$$\frac{2) b\%P}{(n-r)!} \frac{1}{6P}$$

$$\frac{1}{6P}$$

$$\frac{1}{6P}$$

$$\frac{1}{6P}$$

$$\frac{1}{6P}$$

$$\frac{1}{\sqrt{2}}$$