

In how many ways can six pensons be annualled in a row?

How Many 5-digit odd numbers can be formed using digits Without repeating digits9 A HX4! B 288 ES! 6 300

Jeneraly Summary

Arrangement

- 'n' different Items tower all at a time (Repetation Mowed) $\geqslant (0)^{n}$ $\geqslant (0)^{n}$
- 2 'N' different Items tower all at a time (Repetation not allowed) > n (n-1) (n-2) -- -- 1 = (!)

Order Les Belection Choup

'n' dill. Hems Tayen all at a time (without Replacement)

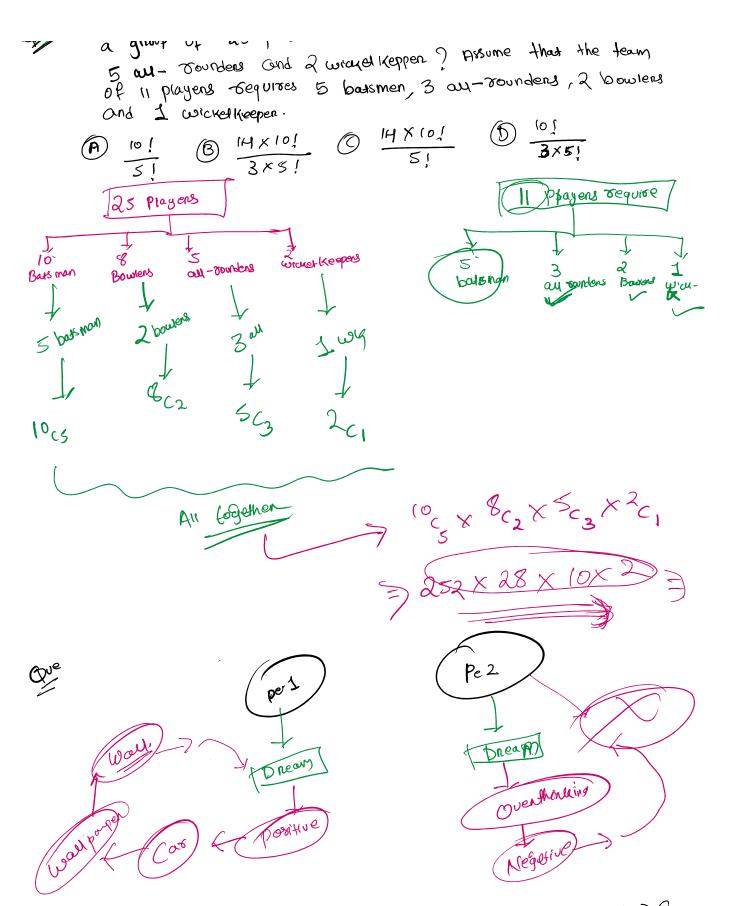
5 Items. EACDB = 5 (tems

O Total No. of way = I ways

CASE 2: n' different thems Selection T' at a timo. (without Reprosement) 3 Hers => AB AC BC |otal No. of ways=3 ways Order goesnif matter # (n' diff. tens screation '8' at a time. Notal No. of Saedien (group 3 = (npg) = X10. Of annangement of objects Colored Overcountry N = Kn-8 X8 Combinat

Q e

In how many ways can a chicket team be selected from a group of 25 players Containing to batsmen, 8 bowlers, 5 all Tourders and 2 wragel kepper? Assume that the team



A man has 7 revarioes, 4 of them are ladies and 3 Gentlemen, his wife has 7 revarioes, 3 of them are ladies and 4 Gentlemen, In how many ways can he convite a dinner party of 3 ladies and how many ways can he convite a dinner party of 3 ladies and

In how many ways can be consite a dinner party of 3 ladies his wife has 7 relatives, 3 OF them and 3 gentlemen so that there are 3 of man's relained and 3 of wife " schatives.? 6 720 Q 485 D 340 Dinner Porty 144) sclasses ? wife Man 4 Gerkemen. 3 (adres 3 hentlemen H ladios 3 => 4c3x 3cx 3cx 16=16 (b+1+324+144 = 485 working all together Gon Contains 5 different Ted and 6 different white books. In

how many ways (an 6 bans be severed So that are atleast two bours of each colore?

Red (s)	(white (6)	x10. of mars
2	4	5 cy x 6 cy = 7
3	3	5 cy x 6 cy = 7
H	2	5 cy x 6 cy = }

The how many ways a team of 5 members can be Selected 8 Gentlemen Such that selection includes after a Cadrost. (A) 336 (B) 448 8 Santle mas $1 + \frac{1}{2} = \frac{1}{2}$