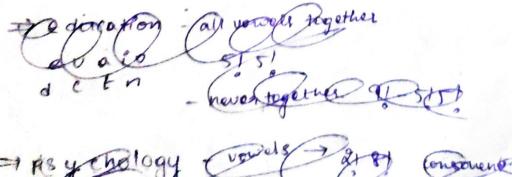


permutations -
$$n_g = n_i$$
 combinations - $n_{cg} = n_i$
 $(n-9)!$ selection $s = n_i$
 $selection$



=1 As y chology vowels 2121 Consoners

→P8 y chology Dall vowell together / neven together

9!21

10! - 9!2!

2!2! 44 De contonants together 8, 81, (3) vowels never together -P-8-y-e-h-1-g-y (Regis 9P x 8! vowels/consonants - odd/even placer pour 5px81 - Education \bigcirc 5,5,9 evalo \bigcirc 6,4,9 det n \bigcirc 3,6,4,0 odd 5P5×43 50 x 51 > No of words fromed without step with step 30 23 tun 3? > Park 5 900 To - order of where 2 2 8 1 0 0 - number of less less than x x x 3 2 1 1 0 1 that number in the aright 2(51) + 2(41)+3(81)+1(21)+0(11)+0(11)) = 309

- donot stourt with zero

-> each alphabet - 0-9

Rate & work

Note a west

A -16 mine B-12 mine
$$7 = \frac{1}{6} + \frac{1}{12} = \frac{1}{4} = \frac{1}{12} = \frac{1}{1$$

alternatively ! - ucycles x 2

sofreet & 2nderect propations

$$\frac{N_1 \times H_1 \times D_1 \times R_1}{W_1} = \frac{N_2 \times H_2 \times D_2 \times R_2}{W_2}$$

Time, speed & distance

tacing encide - down anticlockwise - sight outside - up clockwise - left

tubes cubords

faces -6

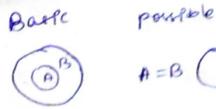
faces -6

edges -12

edges -12

cornear -8 $1 \longrightarrow 6(n-2)^2$ $0 \longrightarrow (n-2)^3$

logical connectors, Implication Negation PAND P-10 2t P Han 9 NO -NP NOGP cohenever P ten 9 apt no Elthon P of 9 NP-19 NOGNE Unter P then G 29-19 NP-1ND NPFP Enry of p then 9 9-19 944 All As are Bs



A=B ()

No A is B

(A) (B)

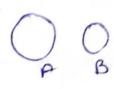
Some As age Bs



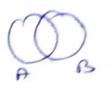




some As are not Bs







some / All - + Barke

No - Bare 1 particity

Being powibility -> Back (01) poeribility

some not -> Basic

Thered psupportion - pig = q:x

mean - JPJ9

forth proportion -> P = 9

supercate > Pr

Torplate -1 p3

$$SD = PXT \times R$$

$$100$$

$$CP = P \left(1 + \frac{R}{N(100)} \right)^{nT} - P \qquad N - no \cdot of fines money$$

compounded analy

$$C2-82=P\left(\frac{R}{100}\right)^2 \rightarrow 2yu$$

$$eP-SP = P\left(\left(\frac{R}{100}\right)^3 + 3\left(\frac{R}{100}\right)^2\right) \rightarrow 3yr$$

$$A = P\left(1 + \frac{R_1}{100}\right)^{T_1} + \left(1 + \frac{R_2}{100}\right)^{T_2}$$

$$A = P\left(1 + \frac{R}{100}\right)^{WT} + \left(1 + \frac{FTR}{100}\right)$$

Peacentager

Aug. of new stems added = $A + 1 - (1 + \frac{N}{n}) \propto$ 1) summoved = $A + 1 - (1 - \frac{N}{n}) \propto$ A - org. aug. N = original no n = added (aemoved stems) X = by which aug. ss. sinc/dec.

Replacement of 9tems A-R = + Noe