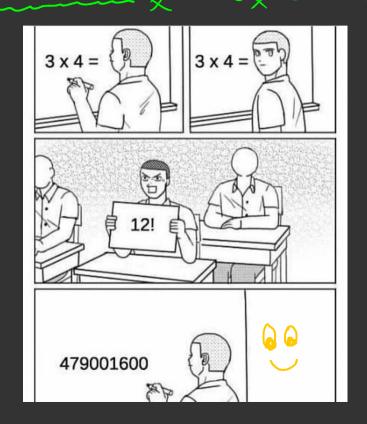
20th Feb. 123

CLASS #4

PERMUTATION AND COMBINATIONS



Yet's start

Interview of the state of the

$$\frac{n}{n} = \frac{n}{n-1} = \frac{n}{$$

(N-D)

IN OUT IN OUT IN $2\times2\times2=2^3$ => ALLOUT -> { }= null TAU IN - \$1,2,34 7 2n _ _ {1,3} - - -Possible all 8 subsets Subset

Abag contains 3 Red and 2 Blue Balls. 2 Balls at random Sention.

SR and (2B)

P= (# of way of bicking 2 Red Balls.

Ptotal # of way of picking army 2 Balls.

Postsability (Application of Pnc)

That Balls = 3+2=5

(SC2) -> Total ways of selectly 2 Balls

Dut of 3 ker balls.

(36) -9 # & ways Picky 2 red
Balls

$$P = \frac{3C_2}{2x+2} = \frac{3}{2x+2}$$

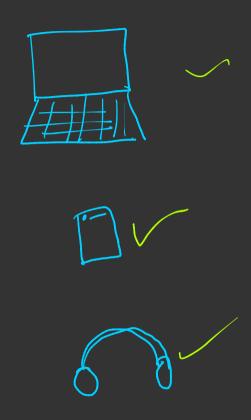
$$\frac{5C_2}{2x+2} = \frac{3}{10}$$

$$\frac{5}{2}$$

$$\frac{7}{2}$$

$$\frac{3}{2}$$

$$\frac{3}$$



Shalls:
$$P(1R4|B) = \frac{3C_{1} \times 2C_{1}}{5C_{2}}$$

$$\frac{3}{3}$$

$$\frac{1}{1} = \frac{3}{5} = \frac{3 \times 2 \times 2}{15 \times 4} = \frac{3 \times 2 \times 2}{2 \times 1} = \frac{3 \times 3 \times 2 \times 2}{5 \times 4} = \frac{3 \times 5}{3 \times 5}$$

$$3(2 - 3)^{2} = \frac{3}{21}$$

W A seats Scletin Arrangement = 6 B1 B2- (B_1, B_2) 3P (B2, B1) - (B_1) B_3) (B3,B1)-(3-2) (B2/B3) 132 B3 -> (B3,B2)-3P2/21 = (3) V









