Combinations - Probability SHRAYANTH. Permu tations and 13 hourts in 52 dock (3) = 613/52 = 1/4 2 5 ways 20 (4-1) 1= 31, = 6 ways 3 31 = 3x2x1 = 6 way 2) Lost aigit Even -> (01) @ 4c2 = 6 ways Remaining 3 digits from 4 3 1/2 → 4×3×2 = 24 @ 1/6 = 2x 24 = 48/ 22) 3+4+5=12 bolls (8) 3+4=7=7 3/7 (to pich) $\frac{5}{12} \times \frac{4}{11} = \frac{20}{132} \Rightarrow \frac{5}{33}$ 9 4!=4×5xex1=24 O 3+2=5+ral } Probobility
Giren→25alls } ⇒ 2/5 23) Toral arrangement: -41×2=48 2W+2M: 8C2×10c2 = 28×45 1) 4×3×2=24 GOLOR - COSSOCIONIL! -(3) 3M + 1M; 8C3X 10C1 = 2 EX10 $4 w: {}^{8}C4: 70 = 560$ 12 TC3 = 35 . (25) Possible Pains:-5! = 5x4+3×2X1 (1,6) (2,5) (3,4), (4,3) 13) In 52 we have 4 King .: 4/52 (5,2), (6,1) = 6 pairs (sum in 7) (5) Total balls = 6+4=10 Black Ball = 4

Total Outcome: 36.

81366 = 1/6

Propoblety = A/18 = 2/5

3 outrone => 3/6

(8) 4 C2 = 6 ways of

(6) AP3 = 4x3x2 = 24 sifterent

(1) Occurance = { 1, 2, 3, 4, 5, 6} > {2,4,6}

choosing 2 letters from mother

passuards con be done