Course5-Sprint3-Challange

Tark:-1 Total members in a society = 12 members. The acrey of the Society, is already Combination: 114 -Hue n=1, 8=4 nca = n; 81(n-8)! = 11 ! 41(11-4)! 11×10× 3× \$x 7× 6×5× 4×3×1×1 14x8x2x1 (7x6x5x4x3x2x1) = 11×10×3 = 330 330 the Committee can be formed Task:2 At a car parking: -There age total = 150 Vehicles There are total. 80 Cars

There are total = 50 Wars

a) van leaving frot = 50 = 1

b) a lossy leaving first = 150-80-50

a cost leading second if Either a lowy or a Man had left first.

anyone of the Schicle ix left = 149 Total = 150 So, the probability of a car leading Second thi - 80 = 0.53691

A Souley was taken on 30 classes al a school. 10. of left 0 1 2 8 5 12 2 of classes)

class has The probability that the 2-left-handed students =

When two dice are stolled = 6x6=36

Equal to 1 = (1,1) probability = No. of outcomes that given a a sum of 1 No o Total No. of outcomes

Equal to 4 = (1,3), (2,2) and (3,1) Probability = No. of outcomes that given a Sum of 4 Total No. of outcomes

Probability = 
$$\frac{.3}{36} = \frac{1}{12}$$

Equal -10 13 = There are troo autcorres: - 11 and 12 less than 13 =

11 = (6,5), (5,6) and (4,7) 12 = (6,6) and (5,7)

There age total truck = 80 (1+020) Nur Even numbers: - 2,4,6,8,10,12,14,16,18; 1) Proposobability = No. of Even Number Total No. of Number  $=\frac{10}{20}=\frac{1}{5}$ 

lark: 6

?)

Total No. of Number

Panparime Number: - 2,3,5,7,11,13,17,19 probability = No. of paine No's Total No. of Numbers

d) Number of diaktible by 5: -5,10,15,20,25,30,35,40,45,50 probability = No. of drainible by 5 - Total No. of Number = <del>-215</del> 55 Herry & playing with dice = 3 (1,4,6), (1,5,5), (1,6,4), (2,3,6), (2,4,5), (3,2,6), (3,3,5), (3,4,4), (3,5,3), (3,6,2), (4,1,6),(4,2,5), (4,3,4), (4,4,3), (4,5,2), (4,6,1) (5,1,5),(5,2,4),(5,3,3),(5,4,2),(5,5,1),(6),4) Number of favorable :- 27 Total possible = 6x6x6 = 216 :. Poobabelety of getting sum 11 when 3 clices are spolled = 27/216 (1,5,6), (2,4,6), (3,4,5), (4,4,4), (5,5,2), (6,3,3), (5,6,1), (4,2,6), (4,3,5), (4,1,5) (2,5;5), (3,6,3), (6,5,1). (1,5,6) enthich can be permitted in [3!)=6 (2,4,6) > (3!) = 6 Nags (4,4,4) -> (3!) = 6 ways.

(5,5,2) -> (3:12:) > 3x2 3xlays (6,3,3)) > (3:/2!) >> 3 Ways.

Total outcomes: -25

:. Hence the sequired probability = 25

=0.15740