CHAPTER 15 : PROBABILITY

① 1500 families with 2 children were selected randomly and the following data were recorded: ⑤

No. of girls in a family	0	1	2
No. of families:	211	814	475

If a family is chosen at random, compute the probability that it has :

① No girl   (ii) 1 girl   (iii) 2 girls

(iv) At most one girl   (v) more girls than boys

② In a circket match, a batsman hits a boundary 6 times out of 36 balls he plays. Find the prabability that on a ball played: ②

    (i) he hits boundary   (ii) He does not hit a boundary

③ The following table gives the life time of 400 neon lamps.   ③

life time (in hour)	300-400	400-500	500-600	600-700	700-800	800-900	900-1000
No. of lamps	14	56	60	86	74	62	48

A bulb is selected at random. Find the probability that the life time of the selected bulb is :

    (i) less than 400   (ii) between 300 to 800 hours   (iii) at least 700 hours

④ The blood groups of 30 students of class IX are recorned as follows: ⑤

    A   B   O   O   AB   O   A   O   B   A   O   B   A   O   O

    A   AB   O   A   A   O   O   AB   B   A   O   B   A   BO

A student is selected at random. Find the probability :

    (i) A   (ii) B   (iii) AB   (iv) O   (v) C

(5) A company selected 2400 families at random and survey them to determine a relationship b/w ~~in into~~ Income level and the number of vehicles in a home. The information gathered is listed in the table below:

(5)

Monthly income (in Rs	Vehicle per family			
	0	1	2	Above 2
Less than 7000	10	160	25	0
7000-10000	0	305	27	2
10000-13000	1	535	29	1
13000-16000	2	469	29	25
16000 or more	1	579	82	88

If family is chosen, find the probability that the family is:

(i) earning Rs 10000 - 13000 per month and owning exactly 2 vehicles.

(ii) earning Rs 16000 or more per month and owning exactly 1 vehicles.

(iii) earning Rs less than 7000 per month and does not own any vehicles.

(iv) owning not more than 1 vehicles

(v) owning at least one vehicles.

Youtube/ Eduvik   @ Eduvik77 (instagram)