CLASS – IX WORKSHEET CHAPTER-15

PROBABILITY

Q1. Can the experimental probability of an event be a negative number? Justify your answer.

Q2. In a single throw of two dice, what is the probability of getting a sum of 9.

Q3. In a survey of 364 children, 91 liked to eat potato chips. If a child is selected at random, find the probability that he/she does not like to eat potato chips.

Q4. A die was rolled 100 times and the no. of times 6 came up was noted. If the experimental probability calculated from this information is $\frac{2}{5}$, then how many times 6 came up?

Q5. Two dice are thrown 500 times. Each time the sum of two numbers appearing is recorded.

Sum	2	3	4	5	6	7	8	9	10	11	12
Frequency	14	30	42	55	72	75	70	53	46	28	15

If the dice are thrown once more, what is the probability of getting a sum

(i) more than 10 (ii) less than or equal to 5

(iii) between 8 and 12?

Q6. A recent survey found that the ages of workers in a factory are distributed as follows:

Age (in years)	20-29	30-39	40-49	50-59	60 and above
Number of workers	38	27	86	46	3

If a person is selected at random, find the probability that the person is

(i) 40 years or more (ii) under 40 years

(iii) under 60 but over 39 years

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Q7. The percentage of marks obtained by student in monthly unit tests are

Test	I	II	III	IV	V	VI
Percentage of marks	52	60	65	75	80	72

Find the probability that in the next test he gets
(i) more than 70% marks (ii) at least 60% marks.

Q8. A company selected 4000 households at random and surveyed to find out relationship between income level and number of television sets in a home.

Monthly income (in ₹)	No. of televisions / household			
	0	1	2	Above 2
< 10000	20	80	10	0
10000 - 14999	10	240	60	0
15000 - 19999	0	380	120	30
20000 - 24999	0	520	370	80
25000 and above	0	1100	760	220

Find the probability:
(i) of a household earning ₹ 10000 - ₹ 14999 per year and having exactly one television
(ii) of a household earning ₹ 25000 and more per year and owning 2 televisions.
(iii) of a household not having any television.

Q9. Given below is the frequency distribution of wages (in ₹) of 30 workers in a certain factory:

Wages (in ₹)	110-130	130-150	150-170	170-190	190-210	210-230	230-250
No. of workers	3	4	5	6	5	4	3

A worker is selected at random. Find the probability that his wages are:
(i) less than ₹ 150 (ii) at least ₹ 210
(iii) more than or equal to ₹ 150 but less than ₹ 210