

By. Er. Dharmendra Sir

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DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

STATICS AND PROBABILITY

SESSION -2024-25

CLASS - 9th

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Time : 1 hr ∴ Statics and probability :- mm'

Q.1 The mean marks (out of 100) of boys and girls in an examination are 70 and 73 respectively. If the mean marks of all the students in that examination is 71, find the ratio of the number of boys to the number of girls.



Q.2. A recent survey found that the ages of workers in a factory are as follows:

age (years)	20-29	30-39	40-49	50-59	60 and above
No. of workers	38	27	86	46	3

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

- (i) 40 yr or more (ii) under 40 yr.
- (iii) having age from 30-39 year
- (iv) Under 60 but over 39 year.



Q.3. The points scored by a basket ball team in a series of matches are as follows:

17, 2, 7, 27, 25, 5, 14, 18, 10, 24, 48, 10, 8, 7, 10, 28

Find the median and mode for the data.

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Q.4. If the mean of the following data is 20.2, then find the value of P .

x	10	15	20	25	30
f	6	8	P	10	6



Q.5. 80 bulbs are selected at random from a lot and their life time (in hours) is recorded in the form of a frequency table given below

Life time (in hrs)	300	500	700	900	1100
Frequency	10	12	23	25	10

one bulb is selected at random from a lot, the probability that its life is 1150 h [Find]

Q.6. If the mean of the observations $x, x+3, x+5, x+7$ and $x+10$ is 9, find mean?



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