

# JSUNIL TUTORIAL , SAMASTIPUR

7<sup>th</sup> Probability and Collection of data (Mean, Median and Mode) [jsuniltutorial.weebly.com](http://jsuniltutorial.weebly.com)

- Two coins are tossed What is the probability of getting (a) one head (b) At least one head (c) two tail
- A dice is thrown once , What is the probability of getting (a) odd number (b) Even number
- A coins are tossed 100 times and head occur 59 times What is the probability of getting (a)head (b) a tail
- A dice is thrown 80 times and number 3 occurs 14 times, find the probability of getting number 3?
- In a survey of 100 ladies it was found that 36 ladies like coffee, Find the probability of ladies (a) like coffee (b) Dislike coffee.
- A dice is thrown once what is the probability of getting (a) prime number (b) even number
- Two dice are thrown at the same time one by one What is the probability that the difference number on the two dice is 2
- A bag contains 5 black 7 red and 3 white balls. A ball is drawn from the bag at random what is the probability that drawn ball is red?
- Calculate the mean of the data 9, 11, 13, 15, 17, 19.
- If A .M for the following data is 28 find x

Class Interval	0-10	10-20	20-30	30-40	40 - 50	50-60	
Marks	12	18	x	20	17	6	N=100

- Find the median of 23, 25, 29, 30, 39. 6.
- Find the median of 3, 4, 10, 12, 27, 32, 41, 49, 50, 55, 60, 63, 71, 75, 80.
- . Find the median of 29, 23, 25, 29, 30, 25, 28.
- Calculate the median of the following table:

Variable ( x)	5	10	15	20	25	30
Frequency( f)	3	6	10	8	2	3

- Find the mode of (i) 7, 4, 5, 1, 7, 3, 4, 6,7. (ii) 12, 15, 11, 12, 19, 15, 24, 27, 20, 12, 19, 15, 11.
- Find the mode from the following frequency table:

Wage	45	50	55	60	65	70	75
No. of Employees	12	11	14	13	12	10	9

- The following data have been arranged in ascending order: 12, 14, 17, 20, 22, x, 26, 28, 32, 36. If the median of the data is 23, find the value of x.
- The mean of 40 observations was 160. It was detected on rechecking that the value 165 was wrongly copied as 125 for the computation of mean. Find the correct mean. (161)
- The median of following observations, arranged in ascending order, is 25. Find x.  
11, 13, 15, 19, x + 2, x + 4, 30,35,39,46
- Find value of p if mean of given data is 8

x	3	5	7	9	11	13
f	6	8	15	P	8	4

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