

Class 8<sup>th</sup> Statics

1. If a die is thrown once, what is the probability of getting a prime number?
2. A coin is tossed 200 times and tail is obtained 128 times. Now, if a coin is tossed at random, what is the probability of getting a tail?
3. In 100 throws of a dice, 5 is obtained 42 times. In a random throw, what is the probability of getting a 5?
4. A bag has 6 red balls and 8 green balls. A ball is drawn from a bag without looking in to the bag. What is the probability of getting a green ball?
5. What is the probability of occurrence of an event?
6. There are 216 workers in a factory and in which 75 are laborers. What would be the central angle of the sector representing laborers in the pie chart ?
7. If 45% of the people residing in a locality are Hindus, then what is the central angle of the sector representing the Hindus in the pie chart?
8. The weekly pocket expenses (in rupees) of 30 students of a class are given below:  
62, 80, 110; 75; 84; 73, 60, 62, 100, 87, 78, 94, 117, 86, 65, 68,; 90,; 80, 118, 72; 95; 72; 103;  
96; 64; 94; 87; 85; 105; 115 Construct a frequency table with class intervals 60-70 and so on.

9. The marks of a student in different subject are given below: Represent the below data by a bar graph.

Subject	Maths	Science	Hindi	English	Social science
Marks	75	70	50	55	65

10. The monthly income of a family is Rs14400. The monthly expenditure of the family on various items is given below. Represent the given data by a pie chart.

Item	Rent	Food	Clothing	Education	Savings
Expenditure	4000	5400	2800	1800	400

11. The data on religion wise division of 1080 workers of a factory are given below: Represent the given data by a pie chart.

Religion	Hindu	Muslim	Sikh	Christian
Numbers of workers	450	270	255	105

12. If a dice is thrown. What is the probability of getting: (i) an odd number (ii) a multiple of 3 (iii) a perfect square numbers (iv) a number less than 4?

13. Three unbiased coins are tossed together. Find the probability of getting: (i) all heads (ii) two heads

(iii) one head (iv) At least two head [ hint : Possible outcomes are HHH, HHT, HTH, HTT, THH, THT, TTH and TTT Ans:  $\frac{1}{8}$  ,  $\frac{3}{8}$  ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ (HHH, HHT, HTH and THH)]

14. Find the probability that a leap year selected at random will contain 53 Sundays.[ $\frac{2}{7}$ ]

15. One card is drawn from a pack of 52 cards, each of the 52 cards being equally likely to be drawn.

Find the probability that the card drawn is : (i) an ace (ii) either red or king (iii) a face card (iv) a red face card) [  $\frac{1}{13}$ ,  $\frac{7}{13}$ ,  $\frac{3}{13}$ ,  $\frac{3}{26}$ ]

16. Two dice are thrown simultaneously. Find the probability of getting: (i) a doublet i.e. same number on both dice. (ii) The sum as a prime number.[ $n=6$   $\frac{1}{6}$ ,  $\frac{5}{12}$ ]