Educonclave

1. In an experiment of tossing a coin once, what is the probability of getting a heads.

2. What is the class size, if one of the interval is 1-20.

3. Find the class mark of the interval 20-35.

4. Find the range of the given data: 55, 25, 12, 47, 35, 26, 37, 38, 87, 23, 23, 65.

5. Find the probability of getting a number less than 7 in a throw of a dice?

6. A bag has 4 red balls and 6 yellow balls. A ball is drawn from the bag without looking into the bag. Find the probability of getting a red ball.

7. Tickets numbered from 1 to 20 are mixed up together and then a ticket is drawn at random. What is the probability that the ticket has a number which is a multiple of 3 .

8. Make a discrete frequency distribution table for the given ages of 25 students of class VIII.

   15, 16, 16, 14, 17, 17, 16, 15, 15, 16, 16, 17, 15, 16, 16, 14, 16, 15, 14, 15, 16, 16, 15, 14, 15

9. Draw a pie chart for the following data:

FLAVOURS	PERCENTAGE OF STUDENTS PERFERRING THE FLAVOURS
Chocolate	25 %
Strawberry	25 %
Vanilla	50 %

10. The weights (in kg) of 30 students of a class are:

    39, 38, 36, 38, 40, 42, 43, 44, 33, 33, 31, 45, 46, 38, 37, 31, 30, 39, 41, 41, 46, 36, 35, 3, 39, 43, 32, 37, 29, 26

    Prepare a frequency distribution table using one class interval as (30-35), 35 not included.

    (a) Which class has the least frequency

    (b) Which class has the maximum frequency

11. In a hypothetical sample of 20 people, the amount of money (in thousands of rupees) with each was found to be as follows:

    114, 108, 100, 98, 101, 109, 117, 119, 126, 131, 136, 143, 156, 169, 182, 195, 207, 219, 235, 118

    Draw a histogram of the frequency distribution, taking one of the class intervals as 50-100.

12. The marks obtained by 40 students of class VIII in an examination are given below:

    18, 8, 12, 6, 8, 16, 12, 5, 23, 2, 16, 23, 2, 10, 20, 12, 9, 7, 0, 5, 3, 5, 13, 21, 13, 15, 20, 24, 1, 7, 21, 10, 13, 18, 23, 7, 3, 18, 17, 16

    Present the data in the form of a frequency distribution using the same class size, starting with class 0-5 (where 5 is not included).

13. In a survey on washing powder, 180 people were asked to state which brand they preferred? If 45 chose Brand A, 30 chose Brand B and 105 chose Brand C, draw a pie chart to show this information.

14. A pack of playing cards is split so that all the picture cards (Kings, Queens, Jacks) are in pile A and all the other cards are in pile B. Find the probability of selection:

    (a) The queen of club from pile A.   (b) The seven of spades from pile B.

C-9, Greater Kailash Enclave 2, New Delhi; Phone 9810815644, 9910393669
Email: info.educonclave@gmail.com; sangeettuli@gmail.com

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