Statistics

<1M>

1.The mean of the six numbers is 43. If one of the no. is excluded, the mean of the remaining no. is41. Then the excluded no. is:

(A) 53 (B) 84 C) 12 (D) None

2.The average temperature of Tuesday, Wednesday & Thursday was 42°C. The average temperature

of Wednesday, Thursday & Friday was 47°C, if the temperature on Tuesday was 43°C, then the temperature on Friday was:

(A) 53°C (B) 49°C (C) 50°C (D) 58°C

3.The mean of first 5 multiple of 5 is:

(A) 14 (B) 16 (C) 13 (D) 15

4.The mean of 10 observations is 25. If one observation, namely 25, is deleted, the new mean is:

(A) 22 (B) 28 (C) 20 (D) 25

5.The mean of 6, y, 7, x, and 14 is 8 then:

(A) x +y = 13 (B) x - y =13 (C) 2x + y =13 (D) $x^2 + y^2$ =15

6.The average weight of a sample of 10 apples is 52 g. Later it was found that the weighing machinehad shown the weight of each apple 10 g less. The correct average weight of an apple is:

(A) 54 g (B) 52 g (C) 62 g (D) 56 g

7.The average weight of a sample of 10 apples is 52 g. Later it was found that the weighing machinehad shown the weight of each apple 10 g less. The correct average weight of an apple is:

(A) 54 g (B) 52 g (C) 62 g (D) 56 g

<$>

8.The average age of 5 teachers is 28 years. If one teacher is excluded the mean gets reduced by 2 years . The age of the excluded teacher is

(A) 26 years (B) 33 years (C) 36 years (D) None

9.The mean of first six prime numbers is:

(A) 6.8 (B) 3.6 (C) 5.6 (D) 5.2

10.The marks obtained by Rahul in school exam are 140, 153, 148, 150, and 154 respectively. Find the mean …….

(A) 129 (B) 139 (C) 149 (D) 159

11.The mean of $\frac{1}{3}, \frac{3}{4}, \frac{5}{6}, \frac{1}{2}$ and $\frac{7}{12}$ is:

(A) $\frac{1}{5}$ (B) $\frac{3}{5}$ (C) $\frac{2}{5}$ (D) None

12.The sum of 15 numbers is 435.The mean of those numbers is:

(A) 30 (B) 28 (C) 29 (D) None

13.The arithmetic mean of a - 2, a, & a + 2 is:

(A) 3a (B) a - 2 (C) a +2 (D) a

14.The mean of all factors of 24 is:

(A) 7.5 (B) 7.75 (C) 7.25 (D) 7

15.Mean of a set of observation is the value which:

(A) Occur most frequently (B) Divides observation into two equal parts.

(C) Is a representative of whole group (D) Is the sum of observations

16.The mean, of x - 5y, x - 3y, x - y , x + y , x + 3y & x + 5y is 12. Then the value of x is:

(A) 12 (B) 18 (C) Can't be determined (D) Data is not sufficient

17.The arithmetic mean of five given number is 85. Their sum is:

(A) 85 (B) 425 (C) Between 85 and 425 (D) More than 425

18.The average marks scored by girls is 68 and that of the boys is 62. The average marks of the whole class is 64. The ratio of the girls & boys in the class is:

(A) 1 : 2 (B) 1 : 1 (C) 2 : 3 (D) 3 : 5

19.the average of A & B is 25, B & C is 28, & C & A is 21. Then the average of A, B and C is:

(A) 23.66 (B) 25.66 (C) 26.66 (D) 24.66

20.The mean weight of a class of 34 students is 46.5 kg. If the weight of the teacher is included , the mean rises by 500 g. Then the weight of the teacher is

(A) 72 kg (B) 52 kg (C) 175 kg (D) 64 kg

21.A bus maintains an average speed of 60 kmph while going from P to Q and maintains an averagespeed of 90kmph while coming back from Q to P. The average speed of the bus is:

(A) 72 kmph (B) 30 kmph (C) 150 kmph (D) 75 kmph

22.The mean of 9 observations is 36. If the mean of the first 5 observations is 32 & that of the last 5 observations is 39 then the fifth observation is:

(A) 31 (B) 43 (C) 28 (D) 37

23.Out of 100 numbers , 20 were 4s, 40 were 5s, 30 were 6s and the remaining were 7s. The arithmetic mean of the number is:

(A) 5.3 (B) 5.4 (C) 6.1 (D) 6.5

24.The mean of the values of 1,2,3--------n with respective frequencies x,2x,3x,.....nx is

(A) $\frac{n+1}{2}$ (B) $\frac{n}{2}+1$ (C) $\frac{n}{2}$ (D) $\frac{1}{2}(n-1)$

<3M>

25.Out of 100 numbers , 20 were 4s, 40 were 5s, 30 were 6s and the remaining were 7s. The arithmetic mean of the number is:

(A) 5.3 (B) 5.4 (C) 6.1 (D) 6.5

26.The numbers of students absent in a class were recorded every day for 120 days and the information is given in the following frequency table. Find mean number of students absents per day by using short - cut method.

No. of students absent (x)	0	1	2	3	4	5	6	7
No. of Days (f)	1	4	10	50	34	15	4	2

27.If the mean of the following data is 20.6 then find the value of p

X: 10 15 p 25 35

F: 3 10 25 7 5

28.If the mean of the following data is 20, find the value of p.

X: 15 17 19 20+p 23

F: 2 3 4 5p 6

29.Find the Mean of following frequency distribution

Class-interval 0-10 10-20 20-30 30-40 40-50

No. of Workers 7 10 15 8 10

30.Find the mean of the following frequency distributions:

Class-interval 0-6 6-12 12-18 18-24 24-30

No. of Workers 6 8 10 9 7

<5M>

31.If the mean of the following distribution is 27, find the value of p:

Class-interval 0-10 10-20 20-30 30-40 40-50

No. of Workers 8 p 12 13 10

32.The distribution below gives the weight of 30 students in a class. Find the median weight of students.

Weight (in Kg.) 40-50 50-60 60-70 70-80

F: 5 14 9 2

33.Find the mode of the following distribution table.

V.0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80

F:58 7 12 28 20 10 10

34.Draw cumulative frequency polygon for the following frequency distribution by less than method.

Marks 0-10 10-20 20-30 30-40 40-50 50-60

Students	7	10	23	51	6	3