ARMY PUBLIC SCHOOL

CLASS – IX

CH. – 14 (STATISTICS)

1. Tally marks are used to find _____
   (a). Class limit (b). Frequency
   (c). Class mark (d). None of these

2. In a histogram, each class rectangle is constructed with base as _____
   (a). Class interval (b). Frequency
   (c). Class limit (d). None of these

3. Median of first 10 odd natural number is _____
   (a). 10 (b). 7 (c). 9 (d). 5

4. The maximum frequency 10 is for the observation 4. The mode of the data is _____.
   (a). 10 (b). 4 (c). 3 (d). None of these

5. The median of observations 17, 18, 20, 22, x+2, x+4, 31, 35, 37 is found to be 24. If the observations have been arranged in ascending order, the value of x will be _____.
   (a). 22 (b). 30 (c). 20 (d). 25

6. What is the class size of 10 – 14?
   (a). 2 (b). 3 (c). 4 (d). None of these

7. The data has been arranged in ascending order: 14, 19, 25, 29, x, 39, 41, 48, 54. If the median of the data is 35. Find x.
   (a). 34 (b). 39 (c). 33 (d). 35

8. The mean of 200 observations is 60. If one of the observation which was 100 is replaced by 300 then what will be the resulting mean?

9. The width of each of five continuous classes in a frequency distribution is 5 and the lower class limit of the lowest class is 10. What is the upper class limit of the highest class?

10. The mean of 20, 25, x, 35, 40 is 30. What is the value of x?

11. if each observation of the data is increased by 5 then their mean _____

12. The mean of 25 observations is 36. Out of these observations if the men of first 13 observations is 32 and that of the last 13 observations is 40, then find the 13^{th} observation.

13. The average monthly salary of 15 workers in a factory is Rs. 285. If the salary of the manager is included, the average becomes Rs. 355. What is the manager's salary?

.14. A school has two sections. The mean mark of one section of size 40 is 60 and mean mark of other section of size 60 is 80. Find the combined mean of all the students of the school.

15. The median of the following observations arranged in ascending order 8, 9,12, 18,

(x + 2),(x +4) , 30, 31, 34, 39 is 24. Find x.

16. The mean weight of 180 students in a school is 50kg. The mean weight of boys is 60kg while that of the girls is 45kg. Find the number of the boys and girls in the school.

17. The mean of the following distribution is 15. Find a.

C.I.	5	10	15	20	25
frequency	6	a	6	10	5

18. If the mean of 2x + 3, 3x + 4, x + 7, x – 3, 4x – 7 is 14. Find x.

19. The following table gives the frequencies of most commonly used letters *a*, *e*, *i*, *o*,*r*, *t*, *u* from a page of a book :

Letters	a	e	i	o	u	r	t
Frequency	75	125	80	70	80	95	75

Represent the above information by a bar graph.

20. Following is the frequency distribution of total marks obtained by the students of different sections of Class VIII.

Marks	100 - 150	150 – 200	200 – 300	300 – 500	500 – 800
No. of Students	60	100	100	80	180

Draw a histogram for the distribution above.

ANSWERS

1. (b) 2. (a) 3. (a) 4. (b) 5. (a) 6. (c) 7. (d) 8. 61 9. 35 10. 30

11. will increase by 5 12. 36 13. 1405 14. 72 15. 21 16. 60, 120

17. 8 18. 6