

INTENSIVE REVISION QUESTIONS (ERQ)

SET 7

Name :

Form :

Teacher:

1.

Number of pens	1	2	3	4	5
Number of students	47	32	39	31	35

The table above shows the distribution of the number of pens each student has for a group of students. Calculate the mean number of the pens. [2 marks]

2. Determine the mode and the median of the following set of data.
23, 33, 26, 25, 32, 23, 31, 23 [4 marks]

3. Given the set of data 24, 29, 21, 27 and 24, find
(a) the range,
(b) the interquartile range
of the set of data. [4 marks]

4. Determine the mean and the standard deviation of a set of data 41, 59, 49, 51, 55, 45, 52, 44, 47 and 57. [4 marks]

5. Find the mean of the following set of data.
74, 65, 71, 69, 70, 79, 65 [3 marks]

6. A set of data consists of eleven numbers. When a number 7 is added to the set of data, the new mean is 5. Find the mean of the original set of data. [4 marks]

7. Determine the mean and the standard deviation of a set of data 72, 88, 87, 72, 77 and 72. [4 marks]

8. Find the mean of the following set of data.
74, 83, 78, 90, 77, 82, 74, 78, 86, 76, 88, 88 [3 marks]

9. Determine the mode and the median of the following set of data.
49, 52, 51, 45, 50, 47, 43, 51, 54, 51 [4 marks]

10. The mean, median and mode of a set of data are 14, 15 and 11 respectively. Find the new mean, median and mode of the set of data if every value in the set of data is
(a) multiplied by 2,
(b) increased by 2 and then divided by 2. [4 marks]

11. The mean of a set of data which consists of twelve numbers is 47.5. When a number x is removed from the set of data, the mean becomes 45.5. Find the value of x . [4 marks]

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12.

Number of pens	1	2	3	4	5
Number of students	78	72	78	71	78

The table above shows the distribution of the number of pens each student has for a group of students. Calculate the mean number of the pens. [2 marks]

13. Determine the mean and the variance of a set of data 87, 90, 100, 95, 88, 83, 86, 98, 95, 82, 93 and 95. [4 marks]

14.

Number	5	6	7	8
Frequency	2	10	8	8

Find the mode and median from the following sets of data above. [4 marks]

15.

Height (cm)	Number of students
145 – 149	9
150 – 154	4
155 – 159	2
160 – 164	3
165 – 169	2

The table above shows the distribution of the heights of 20 students in a survey. Find

- (a) the mean height of the student,
 (b) the median of the distribution from the cumulative frequency distribution table. [4 marks]

16.

Number	5	6	7	8
Frequency	4	9	3	7

Find the mode and median from the following sets of data above. [4 marks]

17.

Number	5	6	7	8
Frequency	8	10	6	5

Find the mode and median from the following sets of data above. [4 marks]

18.

Height (cm)	Number of students
145 – 149	14
150 – 154	13
155 – 159	14
160 – 164	8
165 – 169	5

The table above shows the distribution of the heights of 54 students in a survey. Find

- (a) the mean height of the student,
 (b) the median of the distribution from the cumulative frequency distribution table. [4 marks]

19. Find the mean of the following set of data.
56, 51, 58, 51, 63, 59, 69 [3 marks]
20. The mean of a set of data which consists of six numbers is 37.5. When a number x is removed from the set of data, the mean becomes 34. Find the value of x . [4 marks]

Answers:

1. 2.86
2. Mode = 23, median = 25.5
3. (a) 8
(b) 5.5
4. Mean = 50, standard deviation = 5.586
5. 70.43
6. 4.82
7. Mean = 78, standard deviation = 6.952
8. 81.17
9. Mode = 51, median = 50.5
10. (a) New mean = 28, new median = 30, new mode = 22
(b) New mean = 8, new median = 8.5, new mode = 6.5
11. 69.5
12. 3.00
13. Mean = 91, variance = 31.5
14. Mode = 6, median = 7
15. (a) 153.25
(b) 150.75
16. Mode = 6, median = 6
17. Mode = 6, median = 6
18. (a) 154.87
(b) 154.5
19. 58.14
20. 55

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