ATOMIC ENERGY EDUCATION SOCIETY -MUMBAI

WORK SHEET MODULE-2—CLASS - IX ; STATISTICS

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1) The maximum temperatures (in degree Celsius) and the relative humidity (in percent) for Delhi for the month of August 1974, as reported by the Meteorological department, are given below. Construct a frequency table for each .Maximum temperatures (in degree Celsius)

32.5, 30.3, 33.8, 31.0, 28.6, 33.9, 33.3, 32.4, 30.4, 32.6, 34.7, 34.9, 31.9, 35.2, 35.3, 35.5, 36.4, 36.9, 37.0, 34.4, 32.5, 31.4, 34.4, 35.6, 37.3, 37.5, 36.9, 37.0, 36.3, 36.9, 36.7.

Relative humidity (in percent)

90, 97, 92, 95, 93, 95, 93, 85, 83, 85, 83, 77, 83, 77, 74, 60, 71, 65, 74, 80, 87, 82, 81, 76, 61, 63, 58, 58, 56, 57, 54.

2) 30 sixteen-years old boys were tested to find their pulse rate .The following figures were Obtained for the number of beats per minute.

55, 72, 70, 66, 74, 70, 74, 53, 57, 62, 71, 58, 68, 75, 79, 68, 63, 59, 54, 51, 61, 66, 78, 73, 59, 52, 66, 72, 56,60. Using class intervals 51 - 55, 55-60, etc of equal width Construct a frequency table.

3) The electricity bills (in rupees) of 25 houses in a certain locality for period 15-3-1987 to 14-5-1987 are given below:

50, 44, 10, 18, 5, 8, 56, 30, 22, 30, 14, 15, 12, 27, 42, 45, 25, 24, 20, 22, 24, 16, 25, 36, 47.

Arrange the data in increasing order and form a frequency table.

4) The weights (in grams) of 40 oranges picked at random from a basket are as follows:

45, 55, 30, 110, 75, 100, 40, 60, 65, 100, 75, 70, 60, 70, 95, 85, 80, 35, 45, 40, 50, 60,

65, 55, 45, 30, 90, 85, 75, 85, 70, 110, 100, 80, 70, 55, 30, 70, 40, 75. Construct a frequency

Distribution table.

5) The following table gives the monthly earnings in rupees of employees in a certain factory:

Monthly earning(in rupees)	Number of workers
200—300	15
300—400	10
400—500	5
500 – 600	8
600 – 700	6
700 – 800	6
800 – 900	7
900 -- 1000	3

(i)Write the lower limit of the first class interval?

(ii) Determine the class limits of the fifth class interval.

(iii) Find the class mark of the seventh class interval.

(iv) Determine the class size.

6) The following are the marks (out of100) of 60 students in mathematics:

16, 13, 5, 80, 86, 7, 51, 48, 24, 56, 70, 19, 61, 17, 16, 36, 34, 42, 34, 35, 72, 55, 75

31, 52, 28, 72, 97, 74, 45, 62, 68, 86, 35, 85, 36, 81, 75, 55, 26, 95, 31, 7, 78, 92, 62

52, 56, 15, 63, 25, 36, 54, 44, 47, 27, 72, 17, 4, 30. Construct a grouped frequency table

With width 10 of each class starting from 0 – 9.