Statistics

1) The relative humidity (in %) of a certain city for a September month of 30 days was
   as follows:
   98.1 98.6 99.2 90.3 86.5 95.3 92.9 96.3 94.2 95.1
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   96.0 92.1 84.9 90.0 95.7 98.3 97.3 96.1 92.1 89
   (i) Construct a grouped frequency distirubtion table with classes 84-86, 86,-88 etc.
   (ii) What is the range of the data?

2) The blood groups of 36 students of IX class are recorded as follows.
   A O A O A B O A B A B O
   B O B O O A B O B AB O A
   O O O A AB O A B O A O B
   Represent the data in the form of a frequency distribution table. Which is the most common
   and which is the rarest blood group among these students?

3) Three coins were tossed 30 times simultaneously. Each time the number of heads occurring
   was noted down as follows;
   1 2 3 2 3 1 1 1 0 3 2 1
   2 2 1 1 2 3 2 0 3 0 1 2
   3 2 2 3 1 1
   Prepare a frequency distribution table for the data given above.

4) The electricity bills (in rupees) of 25 houses in a locality are given below. Construct a
   grouped frequency distribution table with a class size of 75.
   170, 212, 252, 225, 310, 712, 412, 425, 322, 325, 192, 198, 230, 320, 412,
   530, 602, 724, 370, 402, 317, 403, 405, 372, 413

5) Rain fall of a place in a week is 4cm, 5cm, 12cm, 3cm, 6cm, 8cm, 0.5cm. Find
the average rainfall per day.

6) If the mean of 10, 12, 18, 13, P and 17 is 15, find the value of P
7) f the mean of the following data is 7.5 , then find the value of 'A'.
   Marks :   5 6   7 8 9 10
   No. of Students: 3 10 17 A 8 4

8) Find the mean of the following data.
   x 5 10 15 20 25
   f 3 10 25 7   5

9) The following numbers are the sizes of shoes sold by a shop in a particular day. Find
   the mode.
   6, 7, 8, 9, 10, 6, 7, 10, 7, 6, 7, 9, 7, 6.

10) Find the mean , mode and median of 10,12,13,15,14,16,10,5.