

Subject: - Mathematics

PRACTICE PAPER

CBSE-7th

Topic: - DATA HANDLING

1. The weights of new born babies (in kg) in a hospital on a particular day are as follows:

2.3, 2.2, 2.1, 2.7, 2.6, 3.0, 2.5, 2.9, 2.8, 3.1, 2.5, 2.8, 2.7, 2.9, 2.4

i) Rearrange the weights in descending order.

ii) Determine the highest weight.

iii) Determine the lowest weight.

iv) Determine the range.

v) How many babies were born on that day?

vi) How many babies weigh below 2.5kg?

vii) How many babies weigh more than 2.8kg?

viii) How many babies weigh 2.8kg?

2. A die was thrown 25 times and following scores were obtained:-

1, 5, 2, 6, 1, 4, 1, 6, 2, 5, 4, 1, 3, 6, 1, 4, 3, 2, 5, 6, 3, 3, 2, 5, 2.

Prepare a frequency table of the scores.

3. Prepare a frequency table of the following ages(in years)of 30 students of class 8th in your school.

13, 14, 13, 12, 14, 13, 14, 15, 13, 14, 13, 14, 16, 12, 14, 13, 14, 15, 16, 13, 14, 13, 12, 17, 13, 12, 13, 13, 13, 14

4. Following figures relate the weekly wages(in rs.) of 15 workers in a factory. Prepare a frequency table.

300, 250, 200, 250, 200, 150, 350, 200, 250, 200, 150, 300, 150, 200, 250

i) What is the range in wages. (in Rs.)

ii) How many workers are getting Rs. 350

iii) How many workers are getting the minimum wages?

5. Find the mean of all factors of 10.
6. Find the mean of $x, x + 2, x + 4, x + 6, x + 8$.
7. The mean of marks scored by hundred students was found to be 40. Later on, it was discovered that a score of 53 was misread as 83. Find the correct mean?
8. The mean of five numbers is 27. If one number is excluded their mean is 25. Find the excluded no.?
9. The mean of 200 items was 50. Later on it was discovered that the two items were misread as 92 and 8 instead of 192 and 88. Find the correct mean?
10. Find the missing frequency p for the following distribution whose mean is 7.68.
- | | | | | | | | |
|---|---|---|---|----|-----|----|----|
| X | – | 3 | 5 | 7 | 9 | 11 | 13 |
| F | – | 6 | 8 | 15 | p | 8 | 4 |
11. The following observation have been arranged in ascending order. If the median of the data is 63, find the value of x :
- 29, 32, 48, 50, $x, x + 2, 72, 78, 84, 95$.
12. The following table shows the weights of 12 persons.
- | | | | | | |
|-----------------|----|----|----|----|----|
| Weight in kg: | 48 | 50 | 52 | 54 | 58 |
| No. of persons: | 4 | 3 | 2 | 2 | 1 |
- Find the median and mean weights. Using empirical relation, calculate its mode.