DATA HANDLING

1. The marks obtained 40 students of a class in an examination are given below; Prepare a frequency distribution table with class intervals starting from 0 - 10
   8,47,22,31,17,13,38,26,3,34,29,11,22,7,15,24,38,31,21,35,42,42,24,45,23,
   21,27,29,49,25,48,21,15,18,27,19,45,14,34,37,34.

2. The electricity bills (in rupees) of 25 houses of a certain locality for a month are given in a frequency table starting from 300 – 400.
   324,700,617,400,356,365,435,506,548,736,780,378,570,685,312,630,584,
   674,754,776,596,745,565,763,472.

3. The number of cycles produced in a factory during five consecutive weeks is given below; draw a bar graph representing the above information

<table>
<thead>
<tr>
<th>Week</th>
<th>first</th>
<th>second</th>
<th>third</th>
<th>fourth</th>
<th>fifth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cycles</td>
<td>800</td>
<td>1300</td>
<td>1060</td>
<td>820</td>
<td>1440</td>
</tr>
</tbody>
</table>

3. A survey showed that the average daily expenditure (in Rs) of 24 households of a city were
   215,248,225,210,237,227,240,238,215,214,249,236,244,221,219,232,216,24
   2,220,230,238,228,225,211.
   Prepare a frequency table using class intervals 210-215 and so on also draw a histogram for the above data.

5. The following is the frequency distribution of marks obtained by 45
   students in a class test; draw a histogram and answer the questions

<table>
<thead>
<tr>
<th>Marks</th>
<th>10-20</th>
<th>20-30</th>
<th>30-40</th>
<th>40-50</th>
<th>50-60</th>
<th>60-70</th>
<th>70-80</th>
<th>80-90</th>
</tr>
</thead>
<tbody>
<tr>
<td>No of students</td>
<td>4</td>
<td>3</td>
<td>4</td>
<td>7</td>
<td>9</td>
<td>8</td>
<td>6</td>
<td>4</td>
</tr>
</tbody>
</table>

1. What is the size of the class (2) what percentage of students scored marks
   Greater than 60 but less than 70 (3) how many get 60 or more marks?
6. A letter is chosen at random from a given word. Find the probability that
   the letter is vowel if the word is NATURAL.

7. Prime numbers between 1 and 25 are written on identical slips, put in a
   box and mixed well. If a slip is drawn at random, what is the probability of
   getting?
   (a) One digit number    (b) an even number (c) an odd number (d) no:
   greater than 11

8. A bag contains 10 white balls and 7 green balls. They are mixed
   thoroughly
   And one ball is drawn at random. Find the probability of getting the
   following
   (a) A white ball    (b) A green ball
   (b)10

9. A dice is thrown once. Find the probability of getting these outcomes
   (i) A prime number    (ii) Not a prime number    (iii) A multiple of 3

10. Two coins are tossed simultaneously. Find the probability of getting
    (i) 2 heads (ii) one head (III) no head   (iv) at least one head (v) at most one
    head

11. What is the probability that a number selected from the numbers
    1,2,3,4,……20 is not a multiple of 3?

12. One card is drawn from a well shuffled deck of 52 cards. Find the
    probability
    that the card drawn is of the following type. (a) A diamond (b) An Ace