

- The number of goals scored by a football team in 10 matches is 3, 0, 1, 5, 4, 3, 3, 2, 4, 3.
 - What is the frequency of 4?
 - Which number has the maximum frequency?
 - In how many matches did the team score 0 goals?
 - What is the range of the given data?
- Prepare an ungrouped frequency distribution table for the following data of blood sugar level of 40 persons from a locality

69	67	67	67	68	70	66	70	66	66
67	65	68	68	68	66	67	66	68	67
65	66	65	65	68	70	66	70	66	67
69	67	67	67	66	67	70	65	70	70

- The following data represent the departments of 60 employees of a firm. Make an ungrouped frequency distribution table for the following data.

QA	Legal	F&A	Legal	S&M	F&A	S&M	F&A	QA	F&A
F&A	F&A	Legal	HR	R&D	F&A	S&M	S&M	Legal	HR
Tech	QA	Tech	R&D	QA	HR	HR	Legal	Tech	HR
S&M	QA	QA	Tech	Legal	QA	Legal	QA	Legal	QA
S&M	Tech	F&A	S&M	Tech	S&M	Legal	S&M	HR	R&D
QA	R&D	QA	F&A	QA	Legal	R&D	Legal	Legal	F&A

- Legal: legal Department
 - Tech: Technical Support
 - HR: Human Resource and Planning
 - QA: Quality Assurance
 - R&D: Research & Development
 - F&A: Finance and Accounting
 - S&M: Sales & S&M
- The following data represent the marks obtained by 30 students of a class in a 50 marks Mathematics paper.

38	43	30	29	13	16
38	31	46	23	22	19
35	44	5	25	20	23
42	45	33	23	23	20
33	41	44	29	20	21

Prepare a grouped frequency distribution table for the data using the classes as 1 -10, 11-20.....

- Consider the following data that represents the distance in kilometers, from school to home, of students of class VIII and answer the questions given below.

Distance in kilometers	0-2	2-4	4-6	6-8	8-10	10-12
Number of students	3	8	12	14	9	4

- How many students stay more than 6 km away [rom the school?
 - Which class interval has the maximum number of students?
 - How many students stay within 4 km distance from School?
 - How many students are surveyed in this data?
- The following data gives the profit made by 50 companies selling finished goods for 50 companies in the year 2014.

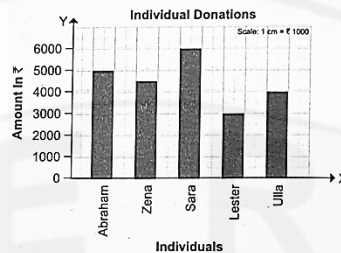
Profit limit (in lakhs)	200-250	250-300	300-350	350-400	400-450	450-500
Number of Companies	6	10	24	20	6	4

- Write the class interval in which maximum companies made profit?
- Write the class interval in which minimum companies made profit?
- How many companies made profit in the class interval of 250— 350 lakhs?
- How many companies made less than 300 lakhs profit?

1. The following data represents marks secured by Ramesh in five subjects. Represent the data using a bar graph.

Subject	Mathematics	Social Science	Science	Hindi	English
Marks (out of 100)	60	65	70	60	55

2. The donation amount in rupees given by 5 individuals to NGO are shown in the adjoining bar graph. Read the graph and answer the following questions.



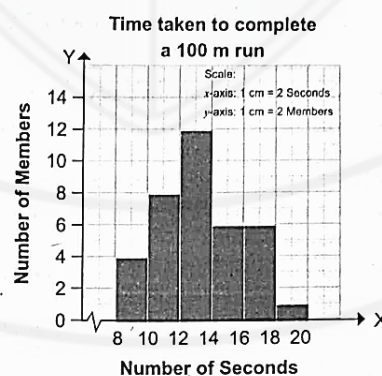
- Who gave maximum donation?
 - Who gave minimum donation?
 - How much more donation did Abraham give than Zena?
 - What is the total amount of donation collected?
3. In the given table the percentage of stamps of each country in Eric's and Susan's collection is tabulated. Draw a double bar graph to represent the data.

Country	India	France	Austria	Sweden	Belgium
Eric	40	20	15	10	10
Susan	30	15	20	10	15

4. The height of 50 students in a class was recorded and the data was tabulated as follows. Draw a histogram to represent the data.

Height (in inches)	50-55	55-60	60-65	65-70	70-75
Number of Students	9	11	18	8	4

5. A training institute trains its members for a 100 m race. The adjoining histogram shows the time taken by the members in a particular 100 m race.



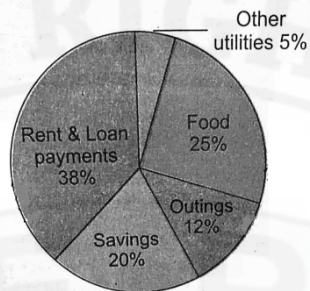
- How many members took more than 16 seconds to complete the race?
- What is the range of time taken by maximum members?
- What is the total number of members trained?
- How many members took less than 10 secs to complete the race?

6. In an activity organized by an NGO, 5 groups participated in selling handmade articles. Draw a pie chart to represent the data of the number of articles sold by each group.

Groups	A	B	C	D	E
Number of Articles Sold	25	50	35	23	47

7. The adjoining pie chart shows Veena's expenditure in a month. The total expense incurred is Rs,40000. Read the pie chart and answer the following questions. Monthly Expenses

Monthly Expenses



- How much does Veena spend on food?
 - In which category does Veena have the maximum expenditure?
 - In which category does Veena have the minimum expenditure?
 - What is the ratio of expenses on outings to savings?
8. The following data represents the number of eggs laid by hens in poultry in a month. Represent the data using a histogram.

Number of eggs	less than 5	less than 10	less than 15	less than 20	less than 25	less than 30
Number of hens	3	10	32	80	180	10

1. Complete the following table,

Class Interval	Class Mark	Lower limit	Upper limit	Tally Marks	Frequency
20-30					
	35	30			7
	45		50		8
		50	60		

2. Match the following.

I		II	
a)	Pie chart	i.	No space between the two bars for same observation
b)	Bar graph	ii.	No space between all the bars.
c)	Histogram	iii.	Circular graphs with the central angle corresponding in proportion to frequency.
d)	Double bar graph	iv.	Equal space between any two bars.

3. Draw a bar graph for the following data that represents the favorite musical instrument of 25 individuals.

Instrument	Guitar	Flute	Trumpet	Drum	Violin
Number of people	6	4	2	8	5

4. The following data displays the grade obtained by 90 students in a class. Draw a double bar graph to represent the following data.

	A	B	C	D
Boys	21	14	8	3
Girls	18	20	4	2

5. The following table displays the duration of 15 calls, of a person working in a call centre, on a particular day. Draw a histogram to represent the data.

Time in minutes	0-2	2-4	4-6	6-8	8-10
Number of calls	5	3	4	2	1

6. The following data display the number of people of different age groups at a family function. Draw a pie chart to represent the data.

Age in years	Less than 10	11-20	21-30	31-40	41-50	51 above
Number of people	21	10	12	15	9	5