



Data Handling

Excercise - 21.A

Question 1.

The number of members in 20 families are given below: 4, 6, 5, 5, 4, 6, 3, 3, 5, 5, 3, 5, 4, 4, 6, 7, 3, 5, 5, 7
Prepare a frequency distribution of die data.

Solution:

No. of Members	Tally Marks	Number of Families
3	1111	4
4	1111	4
5	# 11	7
6	111	3
7	- 11	2 6
Total		20

Question 2.

A dice was thrown 30 times and the following outcomes were noted:

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

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

Prepare a frequency table:

Solution:

Face No. of Disc.	Tally Marks	No. of outcomes (Frequency)
1	7	6
2	HH 1	6
3	EHI	4
4	#	5
5	1111	4
6	##	5
Total		30

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following data gives the number of children in 40 families:

1, 2, 6, 5, 1, 5, 1, 3, 2, 6, 2, 3, 4, 2, 0, 4, 4, 3, 2, 2, 0, 0, 1, 2, 2, 4, 3, 2, 1, 0, 5, 1, 2, 4, 3, 4, 1, 6, 2, 2

Represent it in the form of a frequency distribution.

Solution:

No. of Children	Tally Marks	No. of families
- 0	1111	4
1	11111	7
2	1111111111	12
3	7	5
4	1441	6
5	[1]	3
6	111	3
Total		40'

Excercise - 21.B

Question 1.

The marks obtained by 40 students of a class in an examination are given below:

8, 47, 22, 31, 17, 13, 38, 26, 3, 34, 29, 11, 22, 7, 15, 24, 38, 31, 21, 35, 42, 24, 45, 23, 21, 27, 29, 49, 25, 48, 21, 15, 18, 27, 19, 45, 14, 34, 37, 34.

Prepare a frequency distribution table with equal class intervals starting from 0-10 (where 10 is not included).

Solution:

Frequency distribution table is given below:

Class intervals	Tally marks	Frequency
010	111	3
10 —20	144	8 .
20 30	HH HHIIII	14
3040	## 1111	9
40 —50	741	6
Total		40

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electricity bills (in rupees) of 25 houses of a certain locality for a month are given below:

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.

Arrange the above data in increasing order and form a frequency table using equal class intervals, starting from 300 – 400, where 400 is not included.

Solution:

Arranging the given data in increasing order:

312, 324, 356, 365, 378, 400, 435, 472, 506, 548, 565, 570, 584, 596, 617, 630, 674, 685, 700, 736, 745, 754, 763, 776, 780.

Now frequency distribution table is given below:

Class intervals	Frequency	Tally marks
300 — 400	5	#
400 — 500	3	111
500 600	6	141.6
600 — 700	4	H40.
700 800	7	MILL

Question 3.

The weekly wages (in rupees) of 28 workers of a factory are given below .

668, 610, 642, 658, 668, 620, 719, 720, 700, 690, 710, 642, 672, 654, 692, 706, 718, 702, 704, 678, 615, 640, 680, 716, 705, 615, 636, 656 Construct a frequency table with equal class intervals, taking the first of the class intervals as 610 – 630, where 630 is not included.

Solution:

Frequency Distribution table is given below:

Wages (in Rs.)	Tally Marks	Frequency
610 630	1111	4
630 — 650	1111	4
650 — 670	177	5
670 — 690	111	3
690 — 710	HH 11	7
710 — 730	1	5
Total		28





62, 80, 110, 75, 84, 73, 60, 62, 100, 87, 78, 94, 117, 86, 65, 68, 90, 80, 118, 72, 95, 72, 103, 96, 64, 94, 87, 85, 105, 115

Construct a frequency table with class intervals 60 – 70 (where 70 is not included), 70 – 80, 80 – 90, etc.

Solution:

Frequency distribution table is given below

Expenses (in Rs.)	Tally Marks	Frequency
60 70	#1	6
70 80	7	5
80 90	11 11	7
90 — 100	17	5
100 — 110	111	3
110 120	1111	740
Total		30

Question 5.

The daily earnings (in rupees) of 24 stores in a market was recorded as under:

715, 650, 685, 550, 573, 530, 610, 525, 742, 680, 736, 524, 500, 585, 723, 545, 532, 560, 580, 545, 625, 630, 645, 700

Prepare a frequency table taking equal class-sizes. One such class is 500 – 550, where 550 is not included.

Solution:

Frequency table is given below:

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JONSTOR are and Practice earnings	Tally Marks	frequency (in Rs.)
500 — 550	7	7
550 — 600	TH.	5
600 — 650	1111	4
650 — 700	111	3
700 750	7	5
Total		24

Question 6.

The heights (in cm.) of 22 students were recorded as under:

125, 132, 138, 144, 142, 136, 134, 125, 132, 138, 144, 142, 136, 134, 135, 130, 136, 132, 135, 142

125, 135, 130, 126, 132, 135, 142,

143, 128, 126, 136, 135, 130, 130, 133

Prepare a frequency distribution table, taking equal class intervals and starting from 125 - 130, where 130 is not included.

Solution:

Heights (in cm.)	Tally marks	Frequency
125 — 130	74	5
130 — 135	# 11	7
135 140	7	6
140 — 145	1111	4
Total		22

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