Worksheet

Smart Charts

Q.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 data.

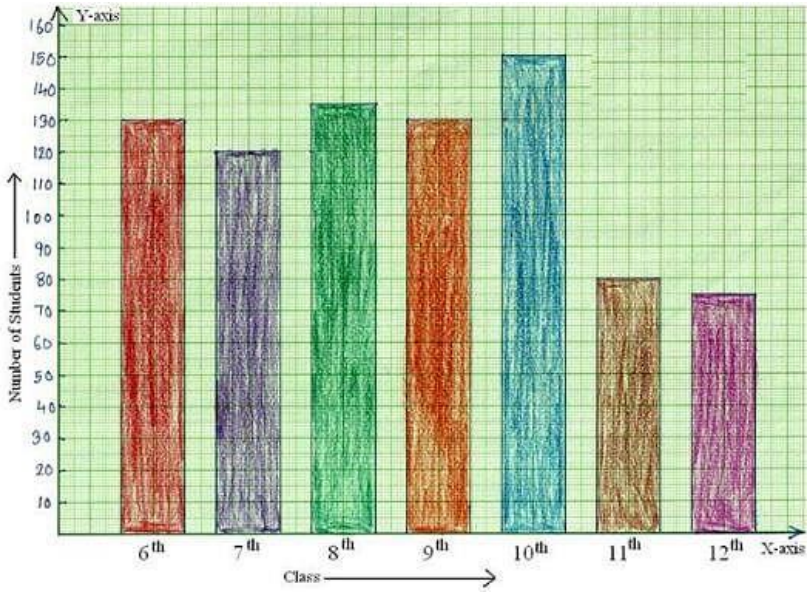
Ans.

Number of members	3	4	5	6	7
Frequency	4	4	7	3	2

Q.2. The number of students in 7 different classes is given below. Represent this data on the bar graph.

Class	6^{th}	7^{th}	8^{th}	9^{th}	10^{th}	11^{th}	12^{th}
Number of Students	130	120	135	130	150	80	75

Ans.



Q.3. The 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.

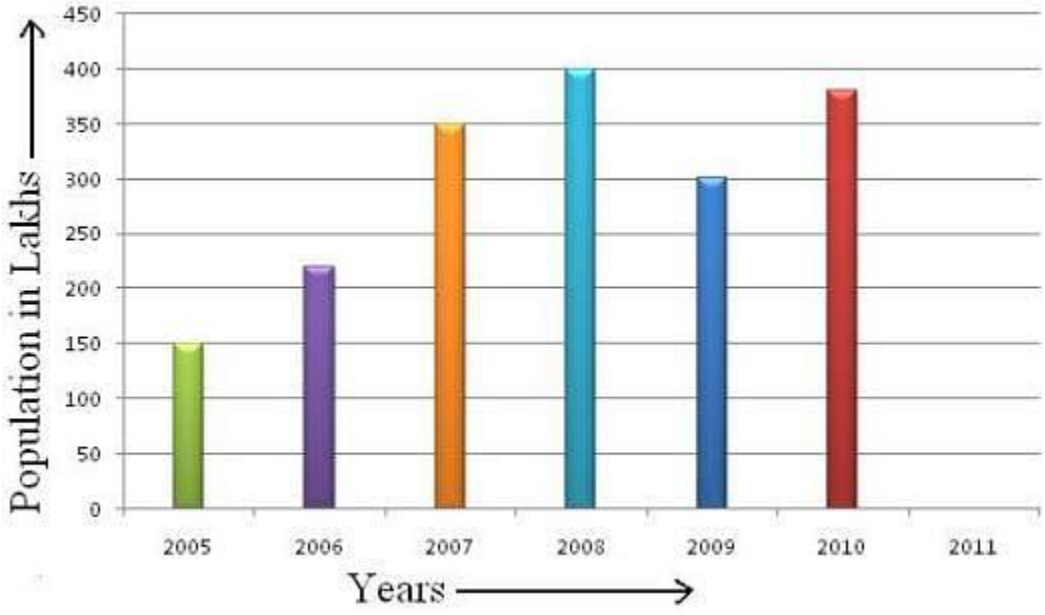
Ans.

Wages (in Dollars)		1	2	3	4	5	6
Frequency	4	7	12	5	6	3	3

Q.4. The number of trees planted by Eco-club of a school in different years is given below.

Year	2005	2006	2007	2008	2009	2010
Number of Trees to be Planted	150	220	350	400	300	380

Ans.



Q.5. The electricity bills (in dollars) 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.

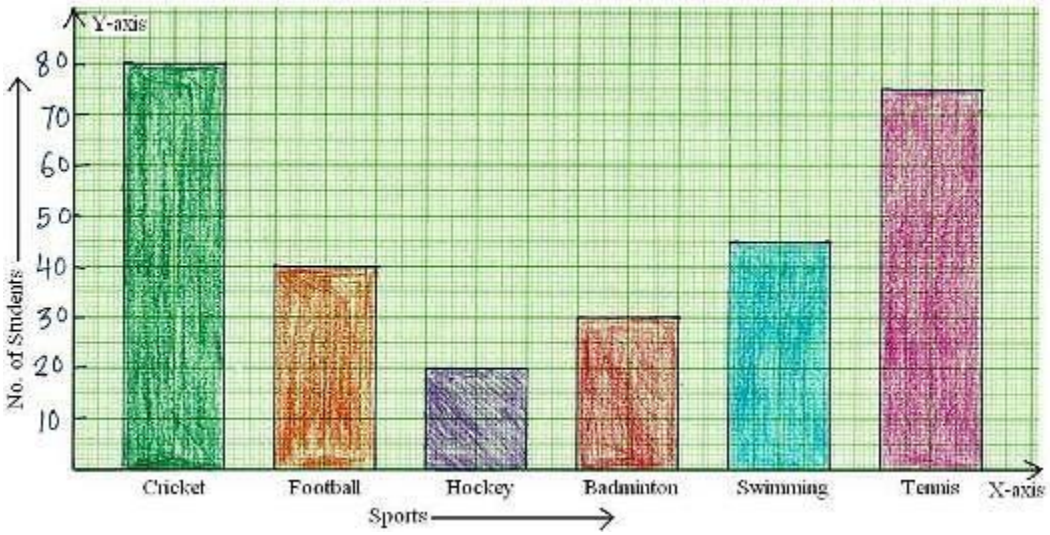
Ans.

Amount of the bill (in Dollars)	300-400	400-500	500-600	600-700	700-800
Frequency	5	3	6	4	7

Q.6. The following table shows the favorite sports of 300 students of a school.

Sports	Cricket	Football	Hockey	Badminton	Swimming	Tennis
No. of students	80	40	20	30	45	75

Ans.



Q.7. The weekly pocket expenses (in dollars) of 30 students of a class are given below:

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.

Ans.

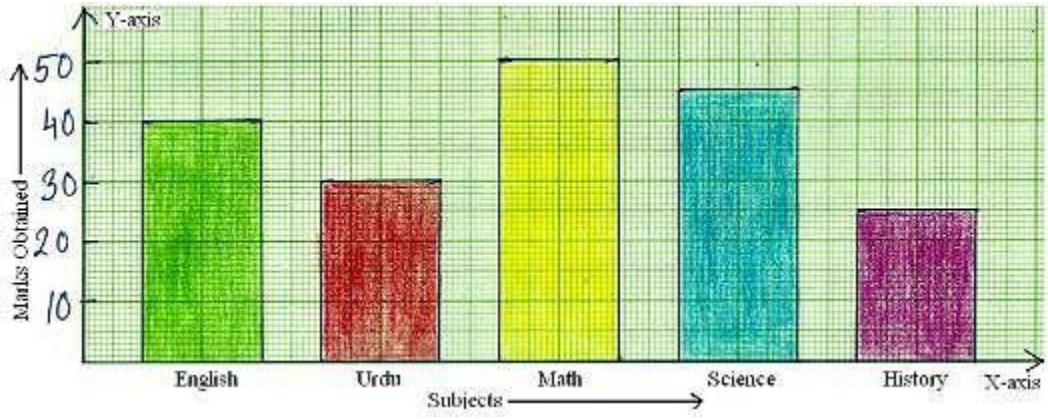
Expenses (in Dollars)	60-70	70-80	80-90	90-100	100-110	110-120
Frequency	6	5	7	5	3	4

Q.8. The following are the marks scored by Aaron out of 50 in different subjects in an exam. Represent this information on a bar graph

Subjects	English	Urdu	Math	Science	History
Marks Obtained	40	30	50	45	25

Represent this information on a bar graph.

Ans.



Q.9. The heights (in cm) of 22 students were recorded as under:

125, 132, 138, 144, 142, 136, 134, 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.

Ans.

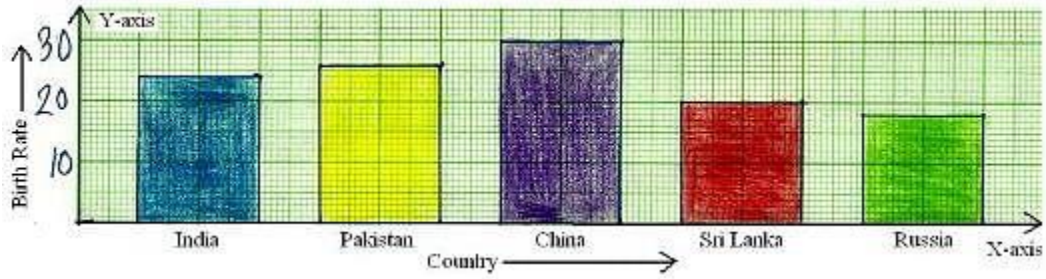
Height (in cm)	125-130	130-135	135-140	140-145
Frequency	5	7	6	4

Q.10. The following data shows the birth rate per thousand of different countries during a certain year. Draw a bar graph.

Country	India	Pakistan	China	Sri Lanka	Russia
Birth Rate	24	26	30	20	18

Read the questions carefully given in the worksheet on bar graph and represent the data in the column graph. The graph are shown below to check the exact the bar graph.

Ans.



Q.11. 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.

Ans.

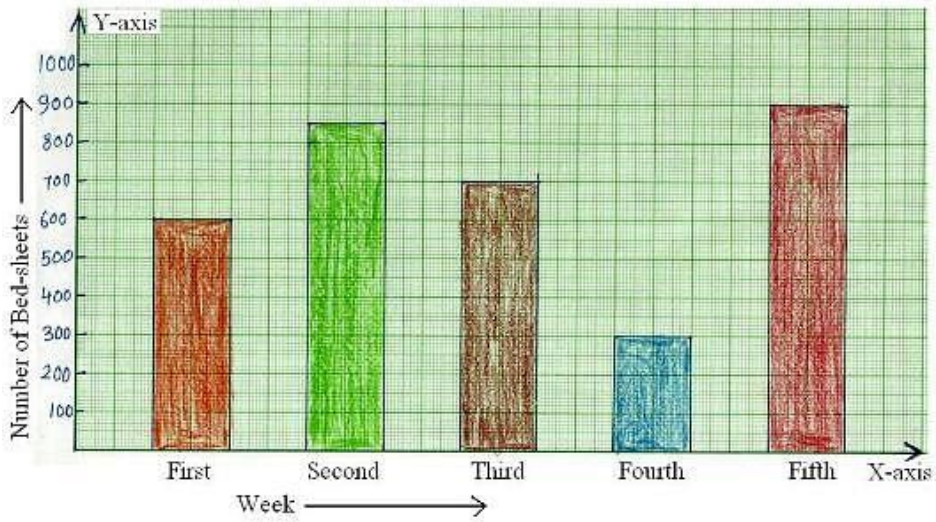
Outcome	1	2	3	4	5	6
Frequency	6	6	4	5	4	5

Q.12. The number of bed-sheets manufactured by a factory during five consecutive weeks is given below.

Week	First	Second	Third	Fourth	Fifth

Number of Bed-sheets	600	850	700	300	900

Ans.



Q.13. 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).

Ans.

Marks	0-10	10-20	20-30	30-40	40-50
Frequency	3	8	14	9	6

Q.14. The number of absentees in class VIII was recorded in a particular week. Represent this data on the bar graph

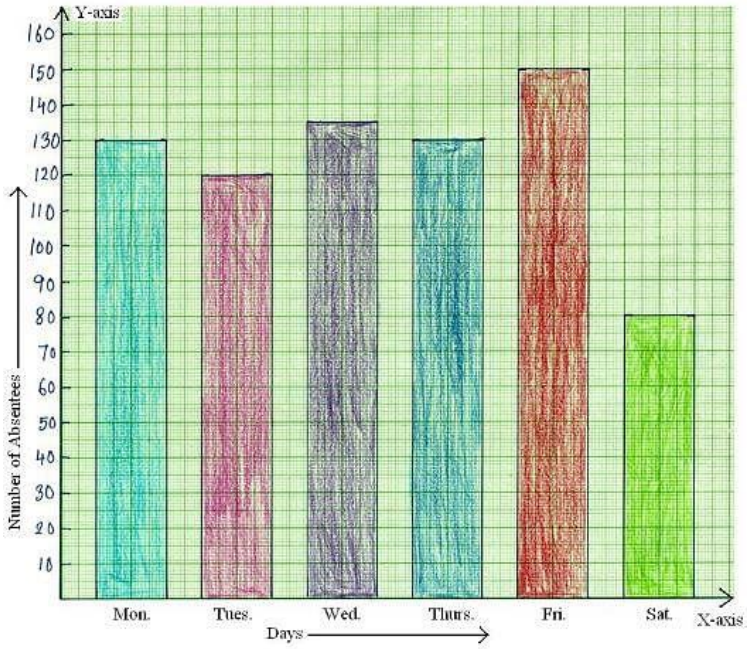
Days	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Number of Absentees	130	120	135	130	150	80

(a) On which day the maximum and minimum students were absent?

(b) How many students were absent on Wednesday and Friday?

(c) On which days the same number of students was absent?

Ans.



Q.15. The weekly wages (in dollars) 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.

Ans.

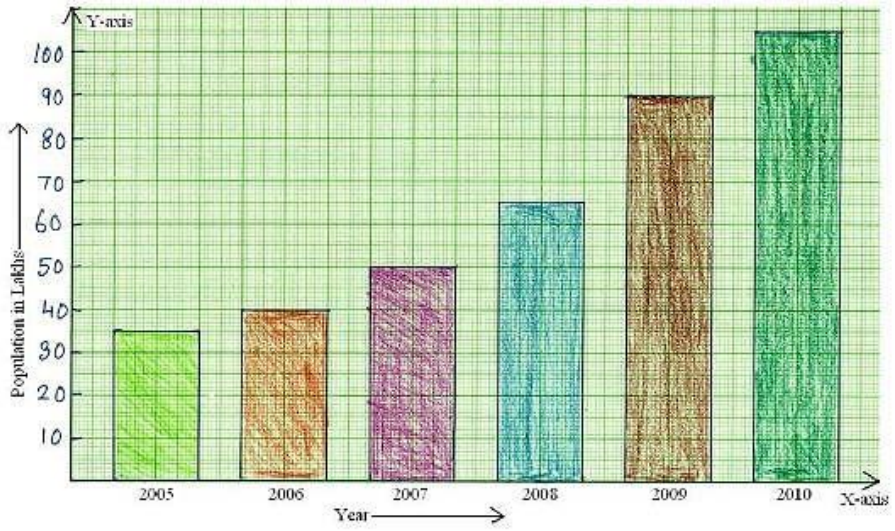
Wages (in Dollars)	610-630	630-650	650-670	670-690	690-710	710-730
Frequency	4	4	5	3	7	5

Q.16. The population of a particular state in different years is given below.

Year	2005	2006	2007	2008	2009	2010
Population in Lakhs	35	40	50	65	90	105

Represent the above data using the bar graph.

Ans.



Q.17. The daily earnings (in dollars) 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

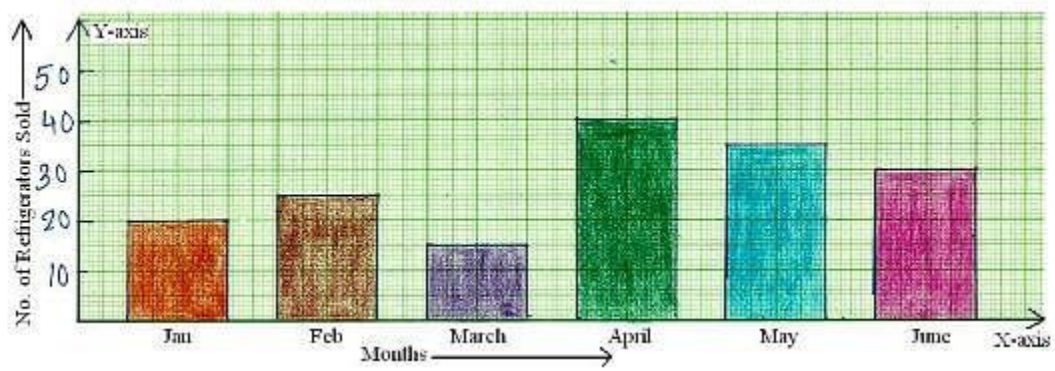
Prepare a frequency table taking equal class sizes. One such class is 500-550, where 550 is not Included.

Ans.

Daily earnings (in Dollars)	500-550	550-600	600-650	650-700	700-750
Frequency	7	5	4	3	5

Q.18. The following data represents the sale of refrigerator sets in a showroom in first 6 months of the year.

Months	Jan	Feb	March	April	May	June
No. of Refrigerators Sold	20	25	15	40	35	30



Q.19. The average monthly attendance of a class is given.

Month	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Attendance	45	46	30	50	38	20	36	32

Draw the bar graph of the data given.

In which month the average attendance is minimum or maximum?

In which month the average attendance was less than 40?

Find the difference between the maximum and minimum average attendance?

Ans.