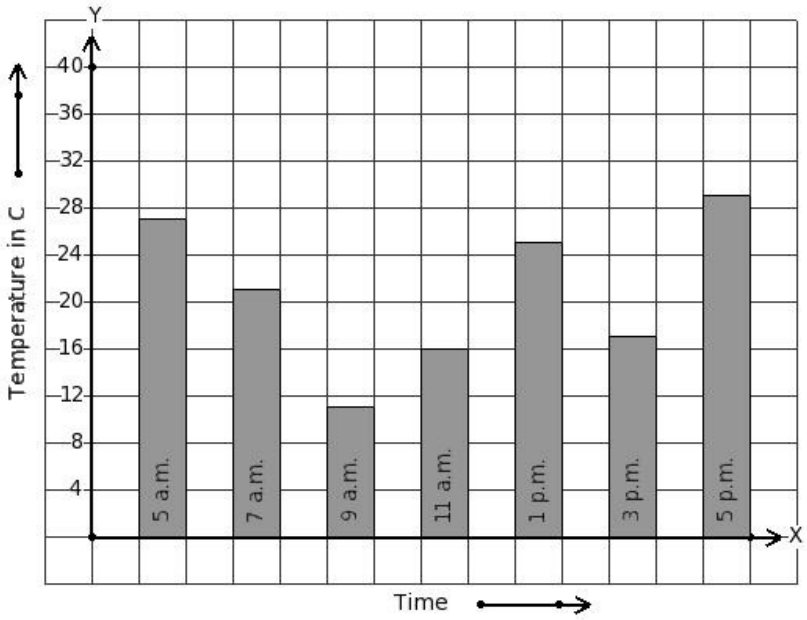
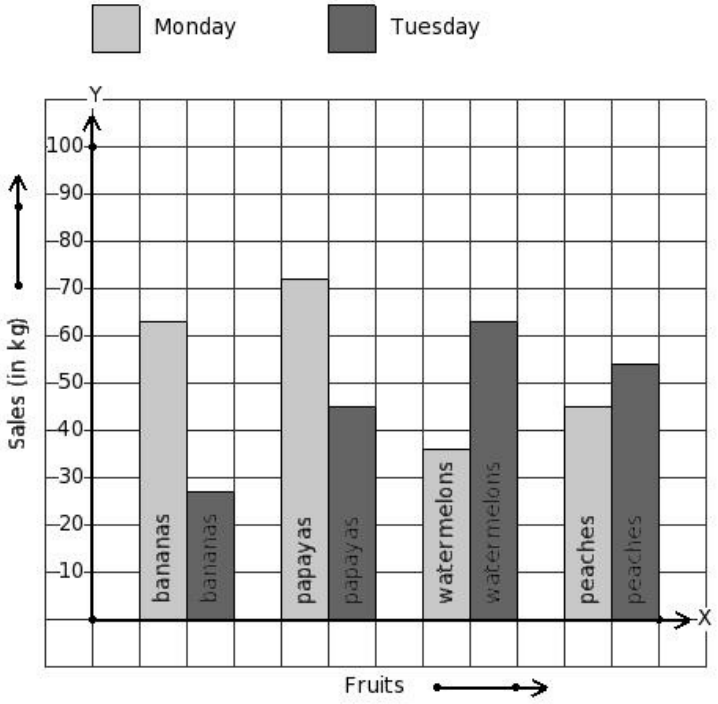
1. On a certain day, the temperature in a city was recorded as shown below. Find the time that has maximum temperature.




(i) 3 p.m. (ii) 7 a.m. (iii) 5 p.m. (iv) 1 p.m. (v) 11 a.m.

2. This graph gives a comparative account of sales (in Rs) of various fruits over a two-day period. Identify the table for the given bar diagram.




(i)

| **Fruits** | bananas | papayas | watermelons | peaches |
|---|---|---|---|---|
| **Monday** | 27 | 45 | 63 | 62 |
| **Tuesday** | 63 | 72 | 36 | 53 |

(ii)

| **Fruits** | bananas | papayas | watermelons | peaches |
|---|---|---|---|---|
| **Monday** | 55 | 72 | 36 | 45 |
| **Tuesday** | 27 | 45 | 63 | 54 |

(iii)

| **Fruits** | bananas | papayas | watermelons | peaches |
|---|---|---|---|---|
| **Monday** | 63 | 72 | 36 | 45 |
| **Tuesday** | 27 | 45 | 63 | 54 |

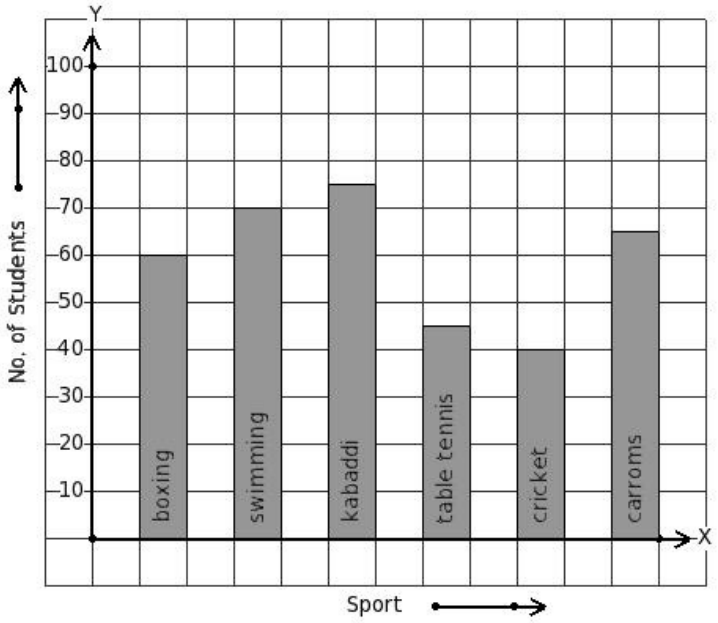
(iv)

| **Fruits** | bananas | papayas | watermelons | peaches |
|---|---|---|---|---|
| **Monday** | 63 | 72 | 36 | 45 |
| **Tuesday** | 27 | 53 | 63 | 54 |

(v)

| **Fruits** | bananas | papayas | watermelons | peaches |
|---|---|---|---|---|
| **Monday** | 63 | 72 | 30 | 45 |
| **Tuesday** | 27 | 45 | 55 | 54 |

3. Given the bar graph, find the maximum frequency

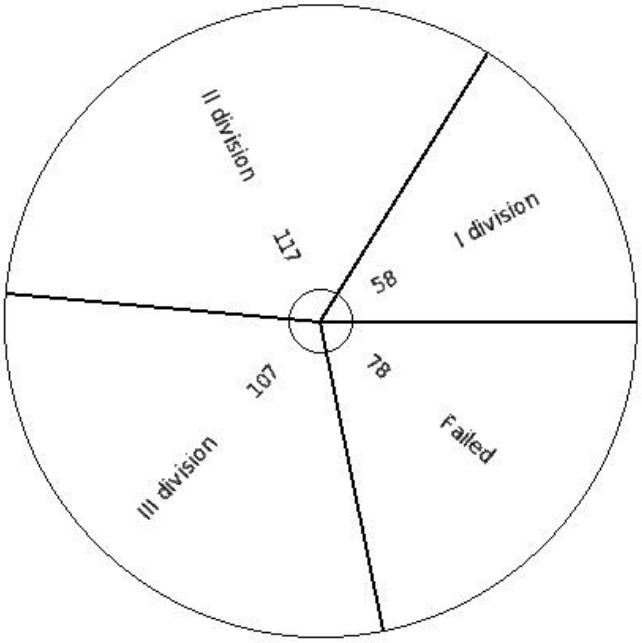



(i) 80 (ii) 75 (iii) 70 (iv) 85 (v) 90

4. A bag contains 45 yellow balls, 24 gray balls, 9 white balls and 27 red balls. One ball is drawn at random from the bag. Find the probability that the ball drawn is gray or yellow.

(i) $\frac{23}{35}$ (ii) $\frac{2}{3}$ (iii) $\frac{22}{35}$ (iv) $\frac{12}{35}$ (v) $\frac{24}{35}$

5. The results declared by a school was as under. Identify the table for the given pie diagram.




(i)

| **Result** | I division | II division | III division | Failed |
|---|---|---|---|---|
| **No. of Students** | 54 | 108 | 99 | 72 |

(ii)

| **Result** | I division | II division | III division | Failed |
|---|---|---|---|---|
| **No. of Students** | 72 | 99 | 108 | 54 |

(iii)

| **Result** | I division | II division | III division | Failed |
|---|---|---|---|---|
| **No. of Students** | 54 | 99 | 72 | 108 |

(iv)

| **Result** | I division | II division | III division | Failed |
|---|---|---|---|---|
| **No. of Students** | 99 | 108 | 54 | 72 |

(v)

| **Result** | I division | II division | III division | Failed |
|---|---|---|---|---|
| **No. of Students** | 99 | 54 | 72 | 108 |

6. The following table gives the data regarding the favourite sport of 163 students of a school. Find number of students who like boxing.

| **Sport** | volleyball | wrestling | carroms | hockey | boxing | badminton | basketball |
|---|---|---|---|---|---|---|---|
| **No. of Students** | 22 | 15 | 30 | 29 | 23 | 19 | 25 |

(i) 23 (ii) 21 (iii) 24 (iv) 22 (v) 25

7. Which of the following are true?

a) The probability of an impossible event is 1
b) For an event E, we have $0 \leq P(E) \leq 1$
c) The probability of an unsure event is 0
d) The probability of an imposible event can be > 1
e) The probability of a sure event is 1

(i) {c,e} (ii) {d,a,b} (iii) {a,b} (iv) {b,e} (v) {c,e,b}

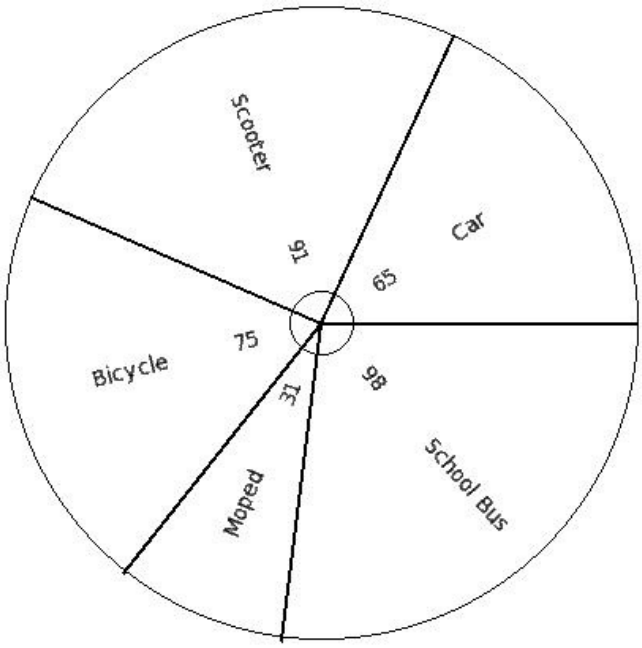
8. A histogram consists of

(i) squares (ii) triangles (iii) sectors (iv) rectangles

9. In a bar diagram the value represented by a rectangle is proportional to its

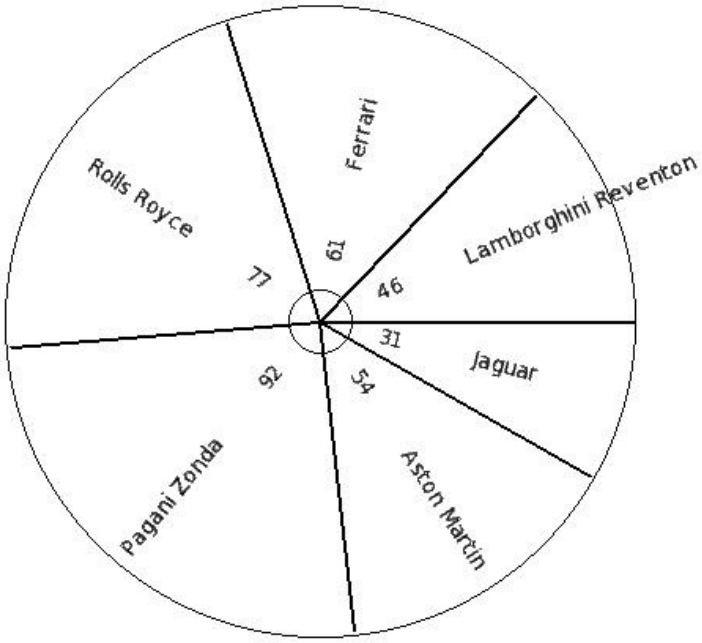
(i) area (ii) length (iii) breadth (iv) perimeter

10. 1390 students of a certain locality use different modes of travel to school as shown below. Find the mode of travel that has maximum students.



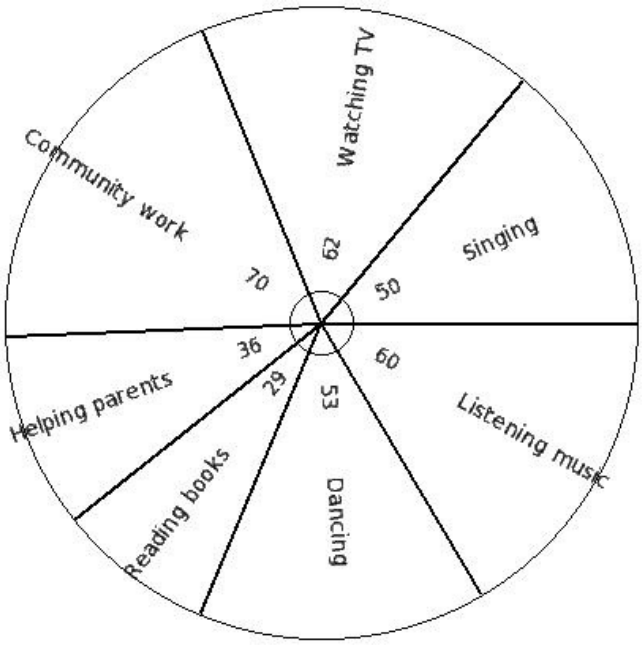

(i) Moped (ii) Car (iii) Scooter (iv) Bicycle (v) School Bus

11. The pie chart given below consists of top selling race cars of different brands. Identify the most sold car.




(i) Rolls Royce (ii) Pagani Zonda (iii) Ferrari (iv) Lamborghini Reventon (v) Aston Martin

12. A survey of 1500 school students was done to knowthe preferred free time activity. Find the activity that has maximum preference.




(i) Helping parents (ii) Reading books (iii) Community work (iv) Watching TV (v) Singing

13. 99 cards are numbered 1,2,3,....99 and put in a box and mixed thoroughly. A card is drawn at random. What is the probability that the number on the drawn card is an odd number?

(i) $\frac{50}{99}$ (ii) $\frac{51}{100}$ (iii) $\frac{17}{33}$ (iv) $\frac{49}{99}$

14. The weights (in gm) of 18 fruits are as follows. Form the grouped frequency table in exclusive form by taking class size 50.

203 287 303 251 371 283 253 222 255 267 293 335 398 350 342 355 244 384

(i)

| **Weight (in gm)** | 203 - 253 | 253 - 303 | 303 - 353 | 353 - 403 |
|---|---|---|---|---|
| **No. of Fruits** | 4 | 6 | 4 | 4 |

(ii)

| **Weight (in gm)** | 203 - 253 | 253 - 303 | 303 - 353 | 353 - 403 |
|---|---|---|---|---|
| **No. of Fruits** | 4 | 4 | 6 | 4 |

(iii)

| **Weight (in gm)** | 203 - 253 | 253 - 303 | 303 - 353 | 353 - 403 |
|---|---|---|---|---|
| **No. of Fruits** | 4 | 11 | 4 | 4 |

(iv)

| **Weight (in gm)** | 203 - 253 | 253 - 303 | 303 - 353 | 353 - 403 |
|---|---|---|---|---|
| **No. of Fruits** | 4 | 6 | 7 | 4 |

15. There are 3690 creatures in a zoo as shown below. Find the pie chart sector angle for "Land animals"

| **Type of creatures** | Land animals | Birds | Domestic animals | Beast animals | Wild animals |
|---|---|---|---|---|---|
| **No. of creatures** | 450 | 540 | 630 | 900 | 1170 |

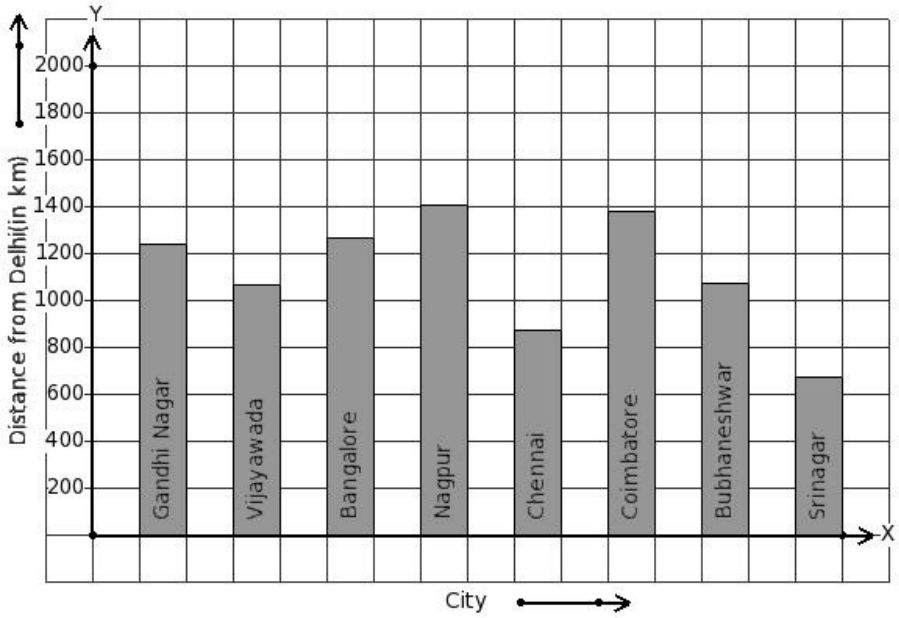
(i) 45.90° (ii) 44.90° (iii) 42.90° (iv) 43.90° (v) 41.90°

16. The class marks of a frequency distribution are 14 , 22 , 30 , 38 .
Find the class size and class intervals in exclusive form

(i) 10;9-18,19-28,29-38,39-48 (ii) 9;10-18,19-27,28-36,37-45 (iii) 8;9-17,17-25,25-33,33-41

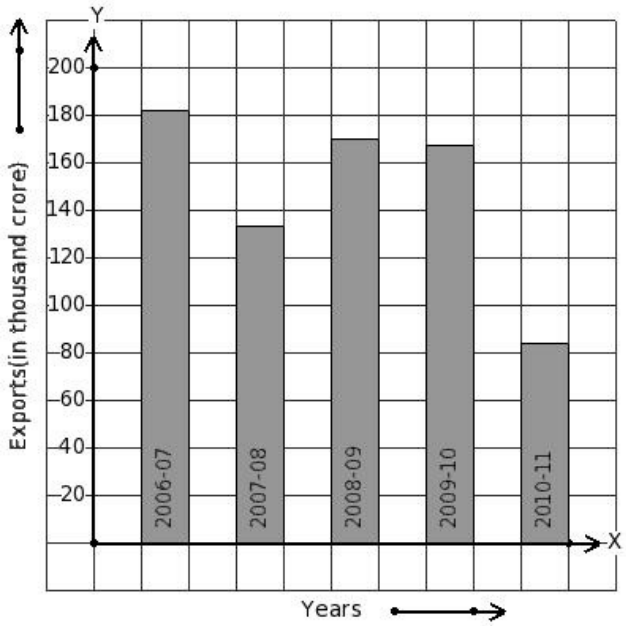
(iv) 8;10-18,18-26,26-34,34-42 (v) 8;11-19,19-27,27-35,35-43

17. The air distance of some cities from Delhi (in km) are given below. Find the city that has minimum distance.



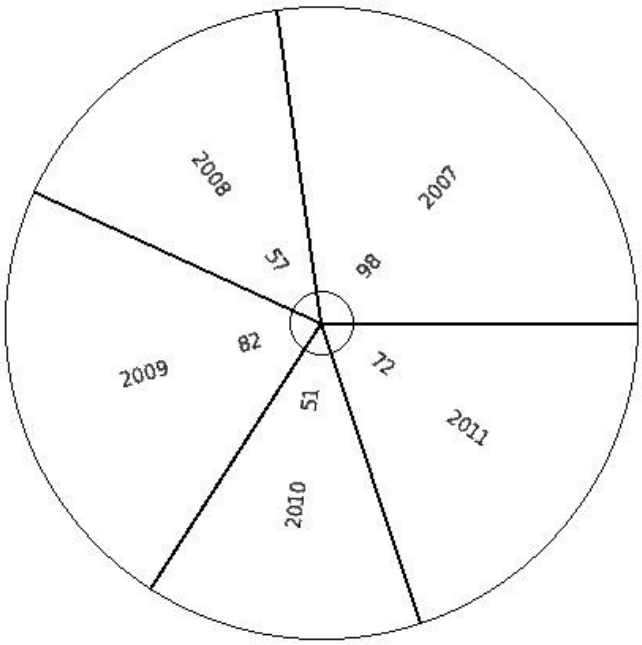

(i) Srinagar (ii) Chennai (iii) Bangalore (iv) Coimbatore (v) Bubhaneshwar

18. The following bar graph shows the export earnings of a country (in thousand crore) during five years. Find the year that has minimum export earnings.




(i) 2009-10 (ii) 2010-11 (iii) 2007-08 (iv) 2008-09 (v) 2006-07

19. Shown below is the total food grain production of 350 million tonnes over 5 years. Find the year that has maximum food grain production.




(i) 2011 (ii) 2008 (iii) 2010 (iv) 2007 (v) 2009

20. The class size used in the below table is

| **Class-Interval** | 47 - 56 | 56 - 65 | 65 - 74 | 74 - 83 |
|---|---|---|---|---|
| **Frequency** | 3 | 11 | 3 | 17 |

(i) 9 (ii) 10 (iii) 6 (iv) 11 (v) 8

21. A die is thrown 110 times. Prime numbers appeared on the upper face 90 times. If a die is thrown at random, what is the probability of getting a prime number?

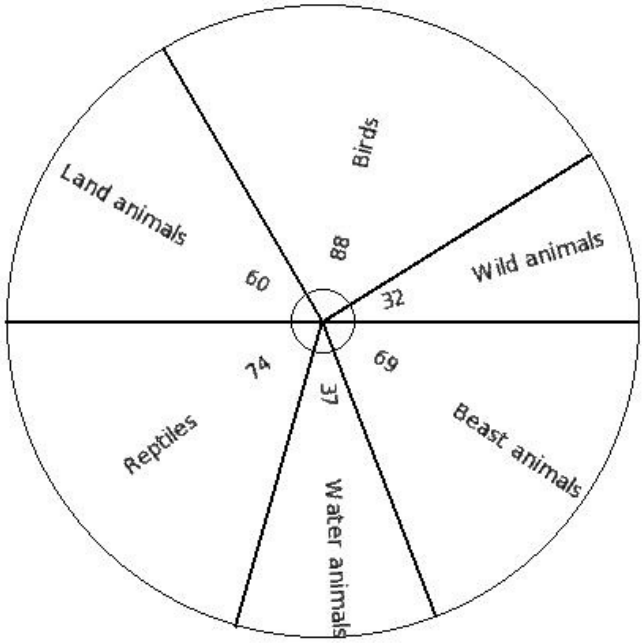
(i) $\frac{8}{11}$ (ii) $\frac{2}{11}$ (iii) $\frac{5}{6}$ (iv) $\frac{9}{11}$ (v) $\frac{10}{11}$

22. The class mark of the class with frequency x is

| **Class-Interval** | **Frequency** |
|---|---|
| 10 - 15 | 6 |
| 15 - 20 | 30 |
| 20 - 25 | 22 |
| 25 - 30 | x |
| 30 - 35 | 30 |

(i) $\frac{57}{2}$ (ii) $\frac{55}{2}$ (iii) $\frac{53}{2}$ (iv) $\frac{109}{4}$ (v) 28

23. There are 780 creatures in a zoo. Find the type of creature that has maximum presense in the zoo.




(i) Water animals (ii) Reptiles (iii) Wild animals (iv) Birds (v) Beast animals

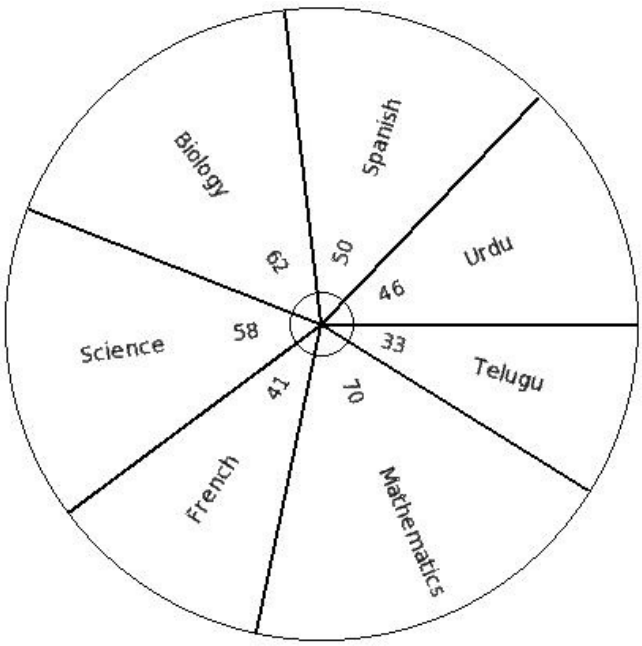
24. Arrange the following data 25 20 18 29 38 19 25 17 12 26 in ascending order

(i) 31 16 40 35 34 19 16 12 17 25 (ii) 12 17 18 19 20 25 25 26 29 38

(iii) 14 32 12 37 16 33 29 22 19 31 (iv) 40 25 33 27 36 28 36 37 32 38

(v) 29 22 19 38 35 40 22 20 30 28

25. The total marks obtained by Jimmy in his annual exam are 435 as shown below. Find the marks in "Mathematics".




(i) 82 (ii) 87 (iii) 88 (iv) 85 (v) 83

## Assignment Key

| | | | | | |
|---|---|---|---|---|---|
| 1) (iii) | 2) (iii) | 3) (ii) | 4) (i) | 5) (i) | 6) (i) |
| 7) (iv) | 8) (iv) | 9) (ii) | 10) (v) | 11) (ii) | 12) (iii) |
| 13) (i) | 14) (i) | 15) (iv) | 16) (iv) | 17) (i) | 18) (ii) |
| 19) (iv) | 20) (i) | 21) (iv) | 22) (ii) | 23) (iv) | 24) (ii) |
| 25) (iv) | | | | | |