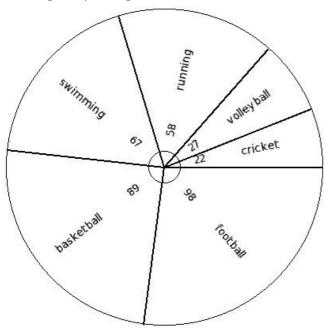
Name : Pie charts

Chapter : Statistics

Grade: ICSE Grade VII

License: Non Commercial Use

The following pie chart gives the data regarding the favourite sport of 729 students of a school. Identify the table for the given pie diagram.



| (i) | Sport           | cricket | volleyball | running | swimming | basketball | football |
|-----|-----------------|---------|------------|---------|----------|------------|----------|
|     | No. of students | 45      | 54         | 117     | 135      | 180        | 198      |

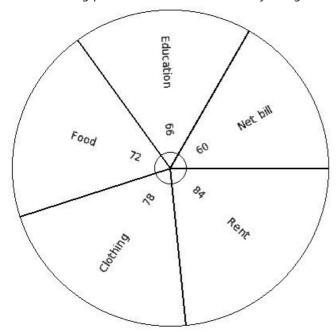
| (ii) | Sport           | cricket | volleyball | running | swimming | basketball | football |
|------|-----------------|---------|------------|---------|----------|------------|----------|
| (11) | No. of students | 45      | 54         | 198     | 135      | 180        | 117      |

| (iii) | Sport           | cricket | volleyball | running | swimming | basketball | football |   |
|-------|-----------------|---------|------------|---------|----------|------------|----------|---|
| (111) | No. of students | 54      | 135        | 117     | 45       | 198        | 180      | Ĭ |

| (iv) | Sport           | cricket | volleyball | running | swimming | basketball | football |
|------|-----------------|---------|------------|---------|----------|------------|----------|
| (1V) | No. of students | 180     | 117        | 135     | 54       | 45         | 198      |

| (v) | Sport           | cricket | volleyball | running | swimming | basketball | football |
|-----|-----------------|---------|------------|---------|----------|------------|----------|
| (V) | No. of students | 180     | 135        | 45      | 54       | 117        | 198      |

2. The following pie chart shows the monthly budget of a family. Identify the table for the given pie diagram.



| /;\ | Item             | Net bill | Education | Food | Clothing | Rent |
|-----|------------------|----------|-----------|------|----------|------|
| (1) | Expenses (in Rs) | 1980     | 1800      | 2340 | 2520     | 2160 |

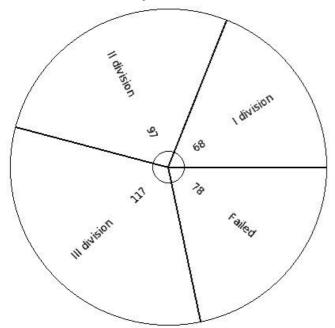
| (ii) |                  |      | Education | Food | Clothing | Rent |
|------|------------------|------|-----------|------|----------|------|
| (ii) | Expenses (in Rs) | 2520 | 2340      | 2160 | 1980     | 1800 |

| (iii) | Item             | Net bill | Education | Food | Clothing | Rent |
|-------|------------------|----------|-----------|------|----------|------|
|       | Expenses (in Rs) | 1800     | 1980      | 2160 | 2340     | 2520 |

| (iv) | Item             | Net bill | Education | Food | Clothing | Rent |
|------|------------------|----------|-----------|------|----------|------|
|      | Expenses (in Rs) | 2340     | 2520      | 1980 | 1800     | 2160 |

| (v) | Item                    | Net bill | Education | Food | Clothing | Rent |
|-----|-------------------------|----------|-----------|------|----------|------|
|     | <b>Expenses (in Rs)</b> | 2520     | 2340      | 1980 | 2160     | 1800 |

3. 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 |
|-----|-----------------|------------|-------------|--------------|--------|
| (1) | No. of Students | 72         | 90          | 108          | 63     |

| (ii) | Result          | I division | II division | III division | Failed |
|------|-----------------|------------|-------------|--------------|--------|
| (11) | No. of Students | 72         | 63          | 108          | 90     |

| (iii) | Result          | I division | II division | III division | Failed |
|-------|-----------------|------------|-------------|--------------|--------|
| (111) | No. of Students | 63         | 90          | 72           | 108    |

| (iv) | Result          | I division | II division | III division | Failed |
|------|-----------------|------------|-------------|--------------|--------|
| (10) | No. of Students | 108        | 90          | 72           | 63     |

| (11) | Result          | I division | II division | III division | Failed |
|------|-----------------|------------|-------------|--------------|--------|
| (V)  | No. of Students | 63         | 90          | 108          | 72     |

The following table gives the data regarding the favourite sport of 396 students of a school. Find the pie chart sector angle for "kabaddi"

| 4. | Sport           | wrestling | football | basketball | swimming | kabaddi | hockey | high jump | running |
|----|-----------------|-----------|----------|------------|----------|---------|--------|-----------|---------|
|    | No. of students | 27        | 63       | 72         | 81       | 18      | 54     | 36        | 45      |

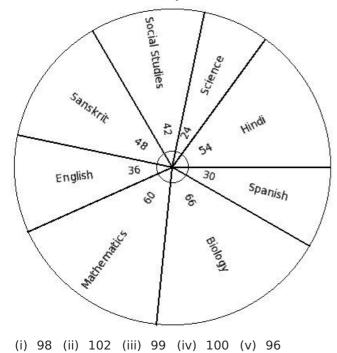
(i)  $14.36^{\circ}$  (ii)  $17.36^{\circ}$  (iii)  $15.36^{\circ}$  (iv)  $16.36^{\circ}$  (v)  $18.36^{\circ}$ 

A man earns Rs 1620 per month. His expenditure during a month is as follows. Find the pie chart sector angle for "Clothing"

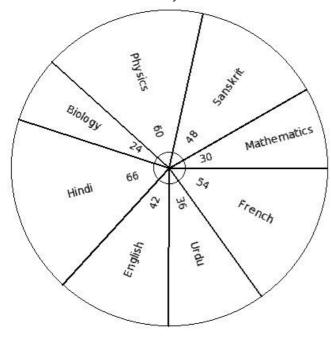
| 5. | Item                 | Electricity | Net bill | Water | Education | Clothing |
|----|----------------------|-------------|----------|-------|-----------|----------|
|    | Expenses (in rupees) | 90          | 135      | 360   | 405       | 630      |

(i)  $138.00^{\circ}$  (ii)  $141.00^{\circ}$  (iii)  $142.00^{\circ}$  (iv)  $139.00^{\circ}$  (v)  $140.00^{\circ}$ 

6. The total marks obtained by a student in his annual examination is 540. Find the maximum marks.

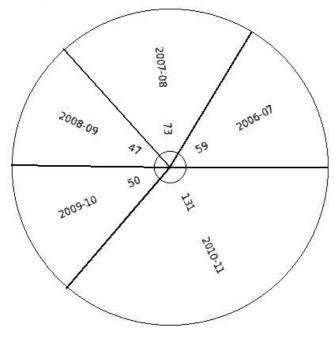


7. The total marks obtained by a student in his annual examination is 540. Find the minimum marks.

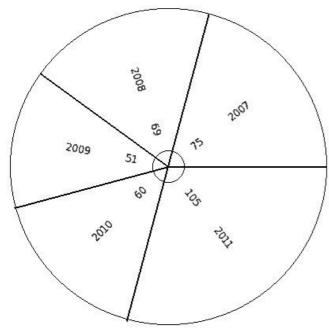


(i) 36 (ii) 37 (iii) 35 (iv) 33 (v) 38

8. The total export earnings of 3600 crores of a country during five years is shown below. Find the earnings (in crores) in 2009-10.

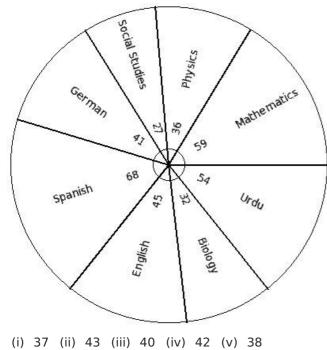


- (i) 502 (ii) 503 (iii) 497 (iv) 500 (v) 498
- 9. Shown below is the total food grain production of 2520 million tonnes over 5 years. Find the production (in million tonnes) in 2008.



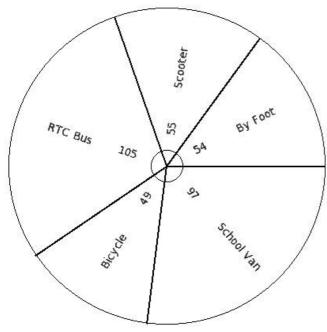
(i) 485 (ii) 480 (iii) 486 (iv) 483 (v) 481

10. The total marks obtained by Vikram in his annual exam are 400 as shown below. Find the marks in "Physics".



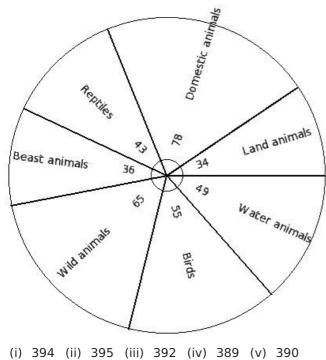
(1) 37 (11) 43 (111) 40 (10) 42 (0) 30

11. 1260 students of a certain locality use different modes of travel to school as shown below. Find the number of students whose mode of travel is "Bicycle".



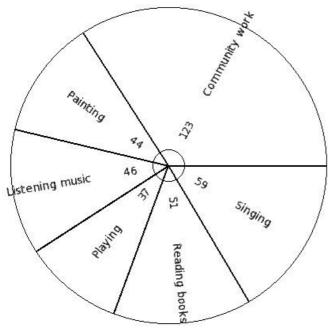
(i) 175 (ii) 174 (iii) 169 (iv) 170 (v) 172

12. There are 2880 creatures in a zoo. Find the count of "Water animals".



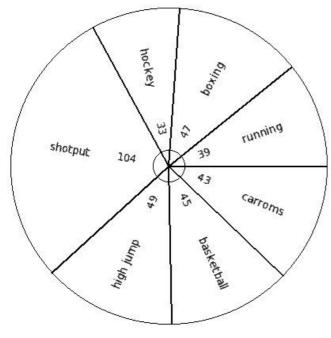
(1) 331 (11) 333 (11) 332 (11) 333 (1) 331

13. A survey of 180 school students was done to know the preferred free time activity. Find the number of students who prefer "Community work".



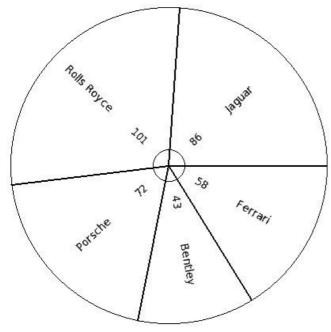
(i) 64 (ii) 59 (iii) 65 (iv) 60 (v) 62

14. The following pie chart shows 900 students of a school participating in various games. Find the number of students who participate in "boxing".



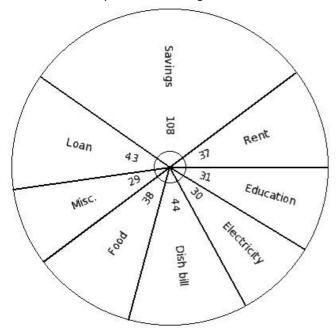
(i) 118 (ii) 121 (iii) 116 (iv) 115 (v) 120

15. The pie chart given below shows purchase of number of cars of different automobile companies in America. Identify the sector angle of "Porsche".



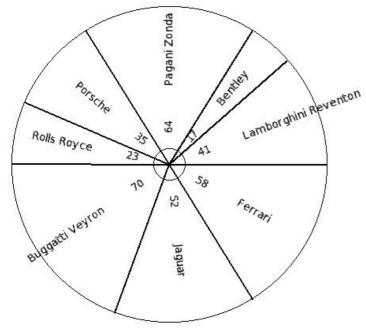
(i) 74 (ii) 70 (iii) 73 (iv) 72 (v) 71

16. The pie diagram given below shows the monthly family expenditure of a person earning ₹14400 per month. How much does he spend on "Savings"?



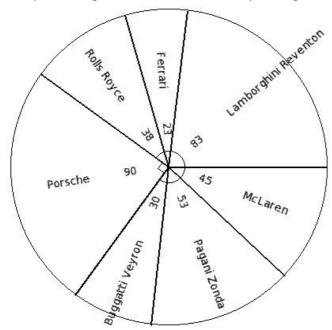
(i) ₹4319.00 (ii) ₹4321.00 (iii) ₹4318.00 (iv) ₹4322.00 (v) ₹4320.00

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



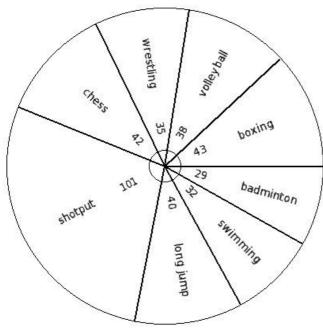
(i) Buggatti Veyron (ii) Lamborghini Reventon (iii) Ferrari (iv) Jaguar (v) Porsche

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



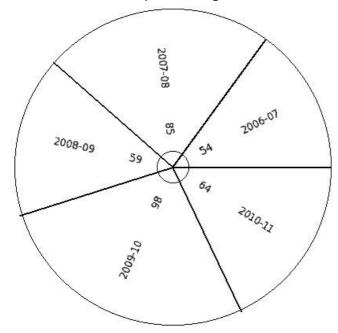
(i) Ferrari (ii) Rolls Royce (iii) McLaren (iv) Pagani Zonda (v) Lamborghini Reventon

19. The number of sectors present in the pie chart



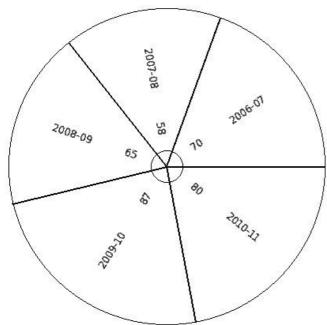
(i) 7 (ii) 8 (iii) 5 (iv) 10 (v) 9

The total export earnings of  $\ref{700}$  thousand crore of a country during five years is shown below. Find the year that has maximum export earnings.



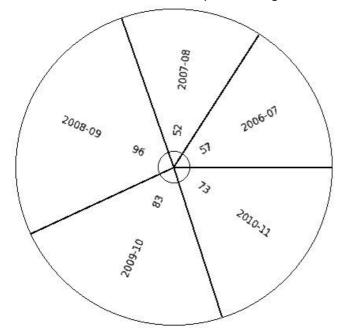
(i) 2010-11 (ii) 2006-07 (iii) 2008-09 (iv) 2007-08 (v) 2009-10

The total export earnings of ₹745 thousand crore of a country during five years is shown below. Find the year that has minimum export earnings.



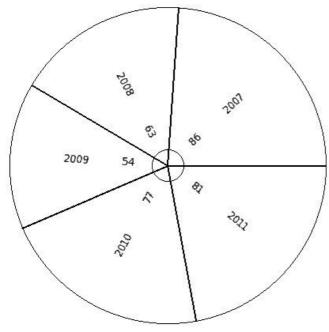
(i) 2007-08 (ii) 2009-10 (iii) 2006-07 (iv) 2008-09 (v) 2010-11

The total export earnings of ₹695 thousand crore of a country during five years is shown below. Find the year that has 185 thousand crore export earnings.



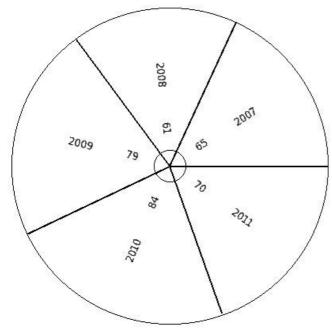
(i) 2007-08 (ii) 2008-09 (iii) 2010-11 (iv) 2006-07 (v) 2009-10

Shown below is the total food grain production of 400 million tonnes over 5 years. Find the year that has maximum food grain production.



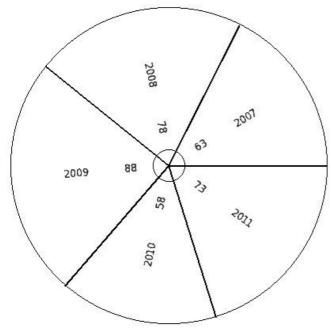
(i) 2011 (ii) 2010 (iii) 2008 (iv) 2007 (v) 2009

Shown below is the total food grain production of 385 million tonnes over 5 years. Find the year that has minimum food grain production.



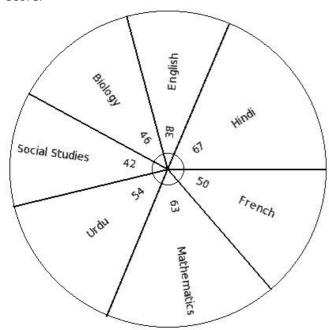
(i) 2011 (ii) 2007 (iii) 2010 (iv) 2008 (v) 2009

25. Shown below is the total food grain production of 370 million tonnes over 5 years. Find the year that has 90 million tonnes food grain production.



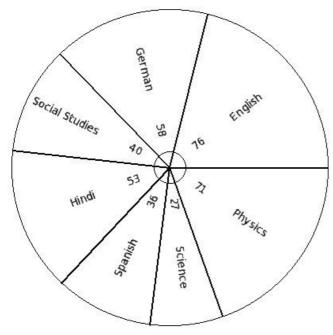
(i) 2007 (ii) 2010 (iii) 2008 (iv) 2009 (v) 2011

26. The total marks obtained by Hari in his annual exam are 430 as shown below. Find the subject that has maximum score.



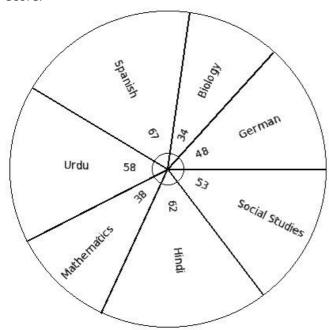
(i) Social Studies (ii) Urdu (iii) Hindi (iv) English (v) Mathematics

27. The total marks obtained by Vinay in his annual exam are 405 as shown below. Find the subject that has minimum score.



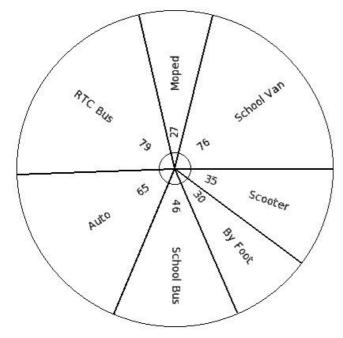
(i) Science (ii) English (iii) Hindi (iv) German (v) Social Studies

The total marks obtained by Kumar in his annual exam are 375 as shown below. Find the subject that has 70 score.



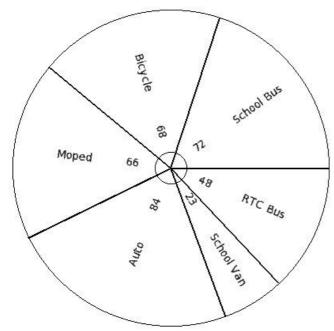
(i) Mathematics (ii) Spanish (iii) Biology (iv) Hindi (v) Urdu

29. 1320 students of a certain locality use different modes of travel to school as shown below. Find the mode of travel that has maximum students.



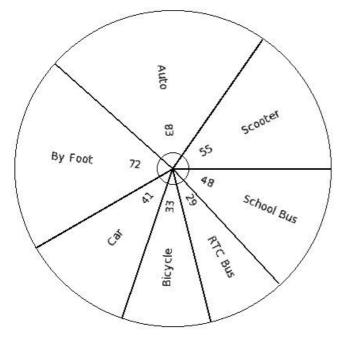
(i) Scooter (ii) School Bus (iii) Moped (iv) By Foot (v) RTC Bus

30. 1590 students of a certain locality use different modes of travel to school as shown below. Find the mode of travel that has minimum students.



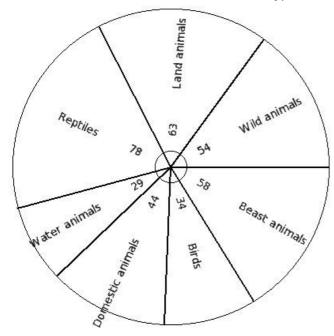
(i) Bicycle (ii) Auto (iii) RTC Bus (iv) School Van (v) School Bus

31. 1510 students of a certain locality use different modes of travel to school as shown below. Find the mode of travel that has 170 students.



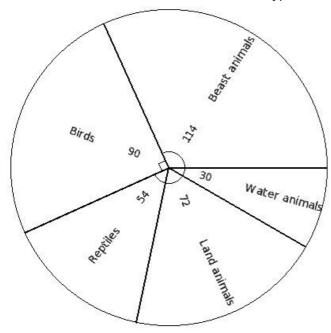
(i) By Foot (ii) Bicycle (iii) Car (iv) School Bus (v) Scooter

32. There are 740 creatures in a zoo. Find the type of creature that has maximum presense in the zoo.



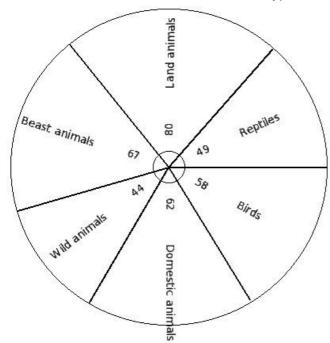
(i) Water animals (ii) Reptiles (iii) Wild animals (iv) Birds (v) Beast animals

33. There are 600 creatures in a zoo. Find the type of creature that has minimum presense in the zoo.



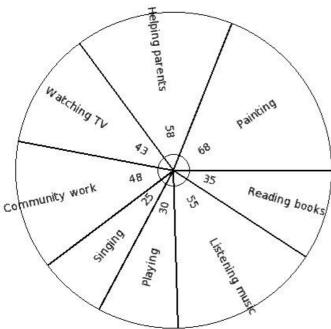
(i) Reptiles (ii) Land animals (iii) Water animals (iv) Birds (v) Beast animals

34. There are 810 creatures in a zoo. Find the type of creature that has 140 creatures presense in the zoo.



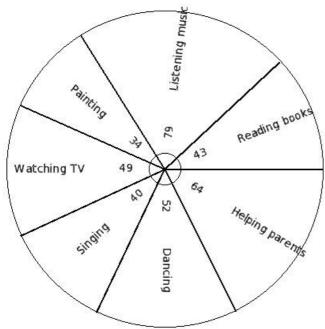
(i) Wild animals (ii) Domestic animals (iii) Land animals (iv) Reptiles (v) Beast animals

35. A survey of 1440 school students was done to knowthe preferred free time activity. Find the activity that has maximum preference.



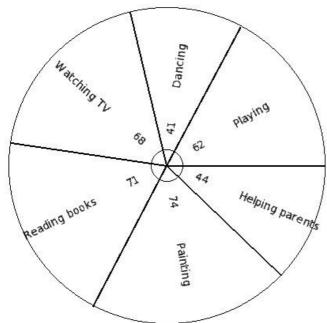
(i) Painting (ii) Listening music (iii) Reading books (iv) Playing (v) Watching TV

36. A survey of 1180 school students was done to knowthe preferred free time activity. Find the activity that has minimum preference.



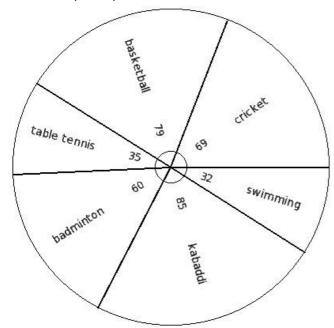
(i) Painting (ii) Reading books (iii) Singing (iv) Helping parents (v) Listening music

37. A survey of 1220 school students was done to knowthe preferred free time activity. Find the activity that has 250 student preference.



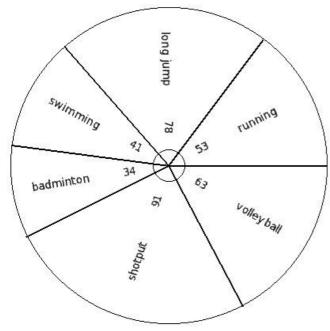
(i) Watching TV (ii) Painting (iii) Playing (iv) Helping parents (v) Dancing

The following pie chart shows 1140 students of a school participating in various games. Find the game that has maximum participation.



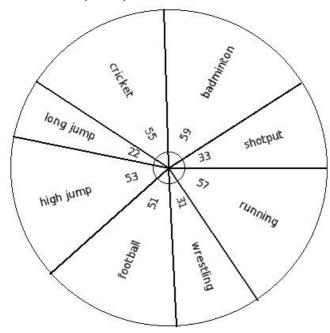
(i) badminton (ii) table tennis (iii) basketball (iv) kabaddi (v) swimming

39. The following pie chart shows 1150 students of a school participating in various games. Find the game that has minimum participation.



(i) badminton (ii) shotput (iii) long jump (iv) swimming (v) volleyball

The following pie chart shows 1770 students of a school participating in various games. Find the game that has 110 student participation.



(i) badminton (ii) shotput (iii) wrestling (iv) long jump (v) football

The total export earnings of ₹2970 crores of a country during five years is shown below. Find the pie chart sector angle for "2009-10"

41.

| Years                             | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 |
|-----------------------------------|---------|---------|---------|---------|---------|
| <b>Exports(in thousand crore)</b> | 180     | 270     | 630     | 810     | 1080    |

(i) 99.18° (ii) 100.18° (iii) 97.18° (iv) 98.18° (v) 96.18°

Shown below is the total food grain production of 2340 million tonnes over 5 years. Find the pie chart sector angle for "2011"

42.

| Years                          | 2007 | 2008 | 2009 | 2010 | 2011 |
|--------------------------------|------|------|------|------|------|
| Foodgrains (in million tonnes) | 180  | 270  | 450  | 630  | 810  |

(i) 124.62° (ii) 125.62° (iii) 122.62° (iv) 126.62° (v) 123.62°

The total marks obtained by Satya in his annual exam are 320 as shown below. Find the pie chart sector angle for "Biology"

43.

| Subject        | Spanish | Physics | Biology | French | English |
|----------------|---------|---------|---------|--------|---------|
| Marks obtained | 80      | 70      | 75      | 60     | 35      |

(i) 83.38° (ii) 82.38° (iii) 84.38° (iv) 86.38° (v) 85.38°

990 students of a certain locality use different modes of travel to school as shown below. Find the pie chart sector angle for "Bicycle"

44.

| Mode of travel  | Scooter | RTC Bus | Moped | Auto | Bicycle | By Foot |
|-----------------|---------|---------|-------|------|---------|---------|
| No. of students | 54      | 108     | 126   | 198  | 216     | 288     |

(i) 79.55° (ii) 76.55° (iii) 78.55° (iv) 77.55° (v) 80.55°

There are 7470 creatures in a zoo as shown below. Find the pie chart sector angle for "Beast animals"

| 45. | Type of creatures | Domestic<br>animals | Beast<br>animals | Land<br>animals | Reptiles | Wild<br>animals | Birds | Water<br>animals |
|-----|-------------------|---------------------|------------------|-----------------|----------|-----------------|-------|------------------|
|     | No. of creatures  | 450                 | 540              | 990             | 1170     | 1260            | 1440  | 1620             |

(i)  $26.02^{\circ}$  (ii)  $24.02^{\circ}$  (iii)  $27.02^{\circ}$  (iv)  $25.02^{\circ}$  (v)  $28.02^{\circ}$ 

The table below shows the preferred free time activity of 972 school students. Find the pie chart sector angle for "Singing"

46. Activity Dancing Helping parents Listening music Reading books Watching TV Singing Painting
No.of students 54 72 90 108 126 180 342

(i)  $66.67^{\circ}$  (ii)  $64.67^{\circ}$  (iii)  $68.67^{\circ}$  (iv)  $65.67^{\circ}$  (v)  $67.67^{\circ}$ 

The following table shows 828 students of a school participating in various games. Find the pie chart sector angle for "high jump"

47. Games high jump shotput table tennis boxing badminton No. of students 108 126 162 180 252

(i)  $48.96^\circ$  (ii)  $45.96^\circ$  (iii)  $47.96^\circ$  (iv)  $44.96^\circ$  (v)  $46.96^\circ$ 

| Assignment Key |           |           |           |          |           |  |  |  |  |
|----------------|-----------|-----------|-----------|----------|-----------|--|--|--|--|
| 1) (i)         | 2) (iii)  | 3) (v)    | 4) (iv)   | 5) (v)   | 6) (iii)  |  |  |  |  |
| 7) (i)         | 8) (iv)   | 9) (iv)   | 10) (iii) | 11) (v)  | 12) (iii) |  |  |  |  |
| 13) (v)        | 14) (i)   | 15) (iv)  | 16) (v)   | 17) (i)  | 18) (i)   |  |  |  |  |
| 19) (ii)       | 20) (v)   | 21) (i)   | 22) (ii)  | 23) (iv) | 24) (iv)  |  |  |  |  |
| 25) (iv)       | 26) (iii) | 27) (i)   | 28) (ii)  | 29) (v)  | 30) (iv)  |  |  |  |  |
| 31) (iii)      | 32) (ii)  | 33) (iii) | 34) (ii)  | 35) (i)  | 36) (i)   |  |  |  |  |
| 37) (ii)       | 38) (iv)  | 39) (i)   | 40) (iv)  | 41) (iv) | 42) (i)   |  |  |  |  |
| 43) (iii)      | 44) (iii) | 45) (i)   | 46) (i)   | 47) (v)  |           |  |  |  |  |

Copyright © Small Systems Computing Pvt. Ltd.