Representation of Data

Q1. The following pictograph shows the number of songs downloaded each day by a musician in a particular week. Based on the following information fill in the blanks given below:

Monday	♫ ♫
Tuesday	♫
Wednesday	♫ ♫ ♫
Thursday	♫ ♫ ♫ ♫ ♫
Friday	♫ ♫ ♫ ♫
Saturday	♫ ♫ ♫
Sunday	♫ ♫ ♫

Key: 1 ♫ = 5 songs

a. Maximum number of songs were downloaded on _____.
b. On Saturday he downloaded _____ songs.
c. Only 10 songs were downloaded on _____.
d. Total songs downloaded in this week are _____.

Q2. The following table gives the information of the number of students involved in different activities:

Activity	Dance	Orchestra	Vocal Music	Skating	Swimming
Number of students	25	10	15	5	20

Represent the above information in the Bar graph given below:

Number of students in various activities

Y-axis: Number of students (0 to 35)
X-axis: Activity — Dance, Orchestra, Vocal Music, Skating, Swimming
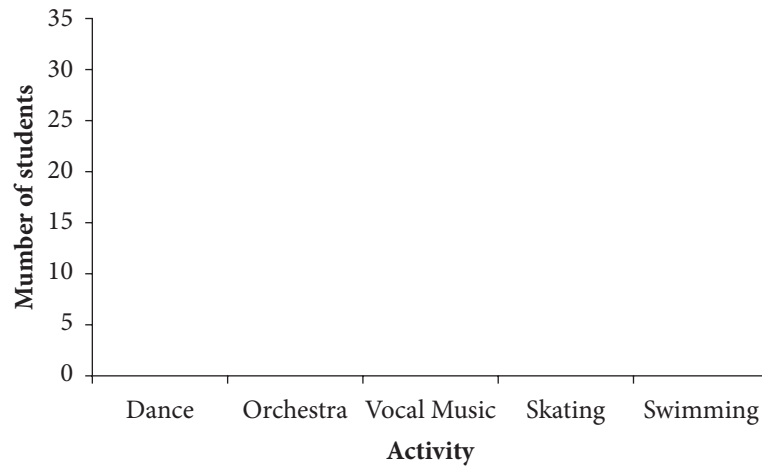
Q3. Observe the given bar graph carefully and complete the pictograph given below:

Television sets sold in the first six months
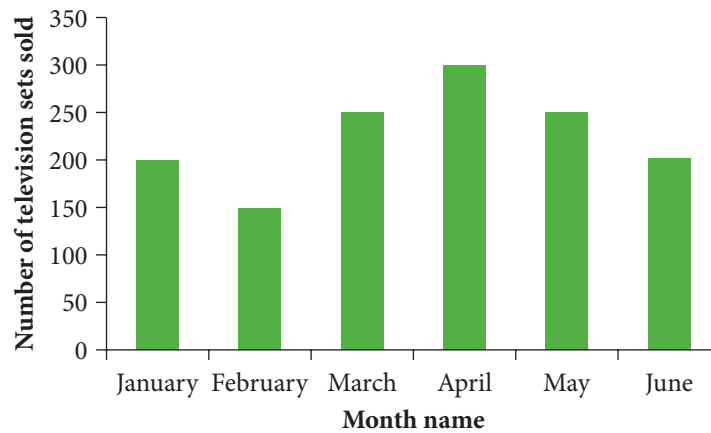
Y-axis: Number of television sets sold (0 to 350)
X-axis: Month name — January (200), February (150), March (250), April (300), May (250), June (200)

| Month name	Number of television sets sold
January	
February	
March	
April	
May	
June	

Key: 1 📺 = 50 Television sets

Q4. The number of copies of a particular novel sold each week was recorded. Complete the following table and construct a bar graph based on the information given below:

a. 500 copies were sold in the first week
b. 250 more copies were sold in the second week than first week
c. The sales in the third week dropped to 100 copies
d. The fourth week saw a record sale. The sale was exactly twice of the first week.

Week	Number of copies sold
1st week	
2nd week	
3rd week	
4th week	

Number of copies sold in a month every week
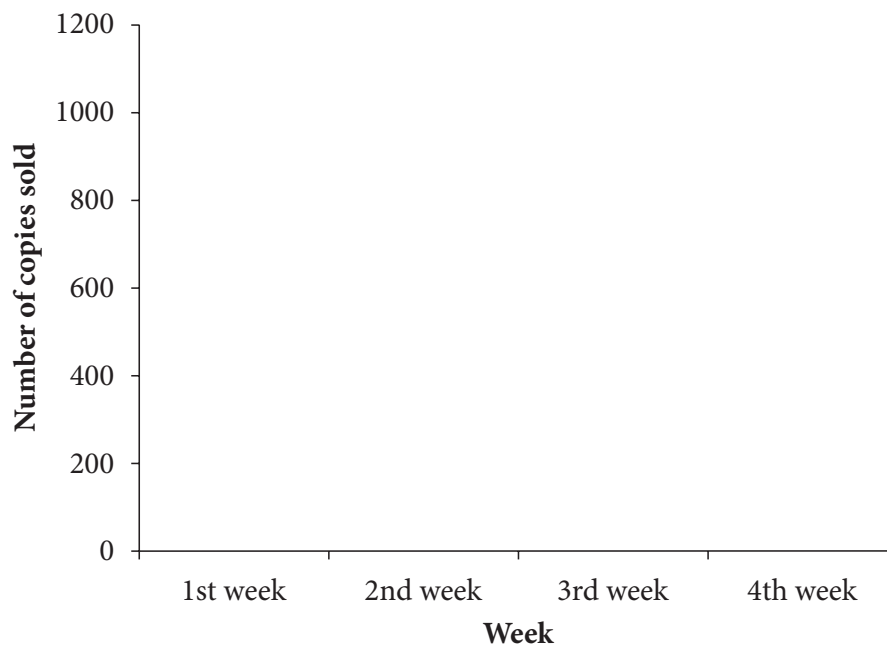
Q5. Mr. Verma has shops in four different sectors of the same locality. The following bar graph shows the sales recorded last month in these shops. Observe the graph carefully and answer the questions given below:

Sale of machines in shops at various locations

a. Which shop had the maximum sale?

b. How many more equipments did Sector 4 sell than Sector 1?

c. How many equipments were sold by the Sector 15 shop?

d. Mr. Verma plans to sell one shop. Which shop should he sell off?

Q6. The following bar graph shows Nidhi's marks in five subjects. Help her teacher prepare the report card by filling in the marks column in the table given below:

Nidhi's Marks in five subjects
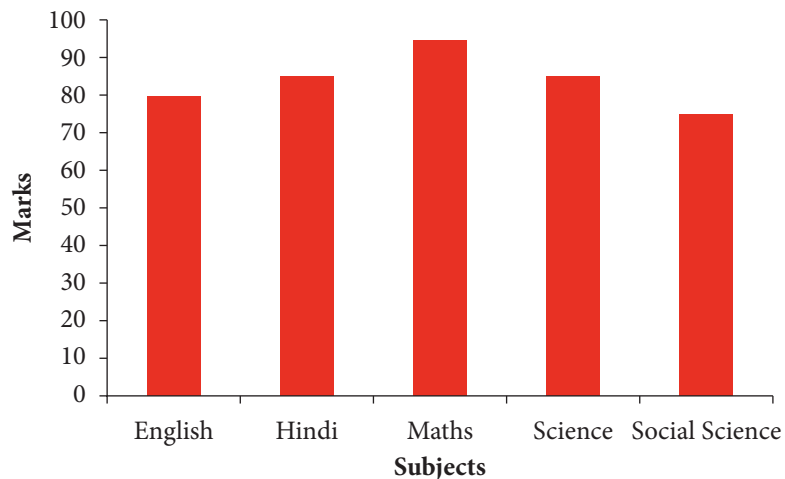
Subject	Marks
English	
Hindi	
Maths	
Science	
Social Science	

Q7. The following graph shows the number of wickets taken by each bowler in their previous matches. Fill in the blanks given below using the given horizontal bar graph:

Wickets taken by the bowlers
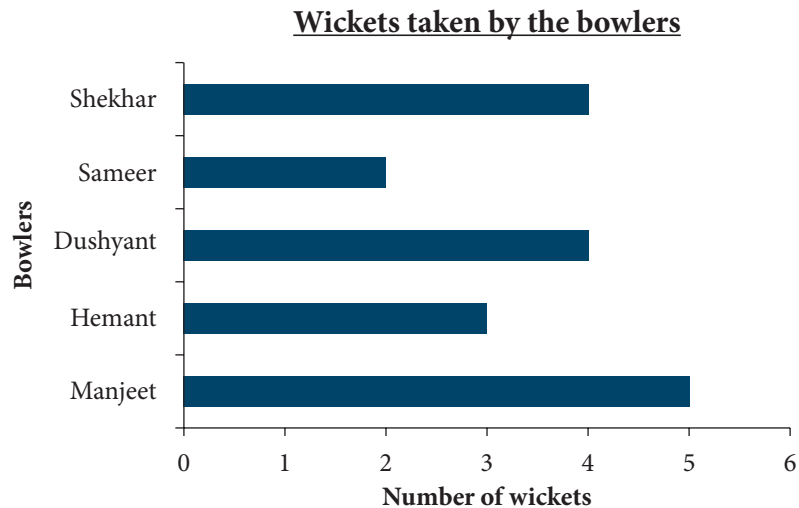
a. The maximum number of wickets taken by any bowler is _____.
b. If a bowler has to be replaced it should be _____.
c. _____ and _____ took the same number of wickets.
d. Hemant took _____ wicket(s) more than Sameer.

Q8.   State true or false:
a. Data represented in the form of a pictograph can be shown in the form of a bar graph but not line graph. _____
b. The columns in a bar graph should be of same width. _____
c. In a vertical bar graph the length of the bars decide the number of items being represented. _____
d. A horizontal bar graph has only horizontal axis. _____

Q9. Choose the graph that should be most suitable to show the percentage of total income spent under various heads (Medical, Savings, Grocery, Transport etc.):
a. Line graph
b. Pie chart

Answer: _____

Q10. The following pie chart shows the pet ownership of various pets in a locality:

Pet Ownership in a locality
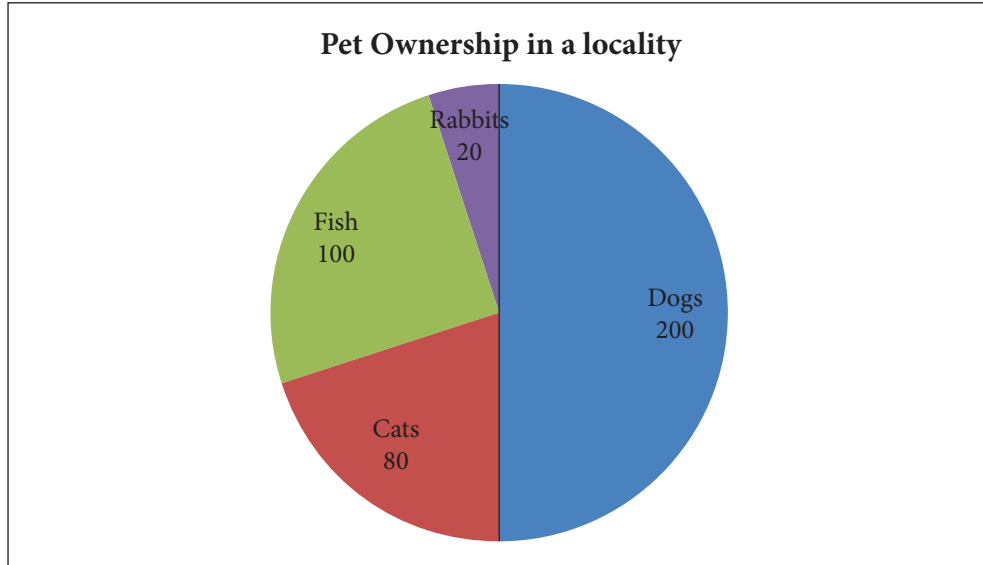
Fill in the missing entries in the following table based on the above pie chart:

Pet	No. of owners	Degrees
Dogs	200	180°
Cats		
Fish	100	
Rabbits		

Q11. The following pie chart shows the grades of students of class V-A in this semester. Answer the following questions based on the given pie chart:

Grades of class V-A students
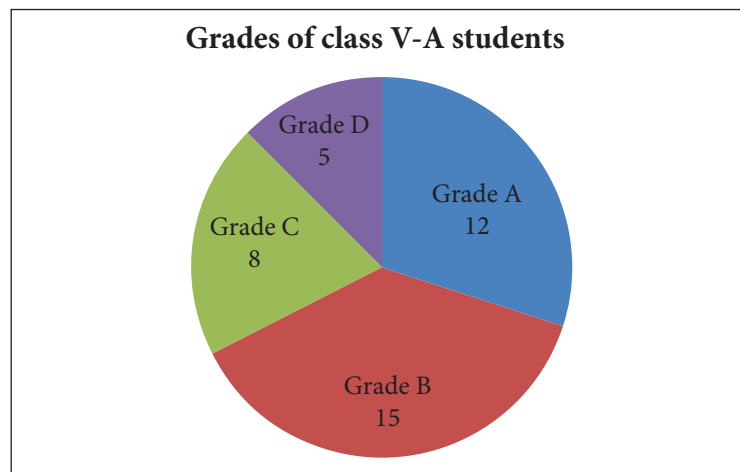
a. How many students got Grade C?

b. Which grade is scored by the maximum number of students?

c. If the students who got Grade D have to give a re-test, how many students will sit for the re-test?

d. What is the total strength of the class?

Q12. Mrs. Dixit showed a pie chart representing the favourite sport of the students of a class. Rajan has created the following table based on the given pie-chart. Find the error in the table:

Sport	Degree of the angle in pie chart
Swimming	120°
Badminton	80°
Table-tennis	97°
Gymnastics	64°

Q13. Five trainees were selected for a typing job. The following table shows the number of typing mistakes done by each of them on the first day of their internship. Create a pie chart representing the data in the table given below.

Name of Trainee	No. of typing errors
Sudha	20
Sunil	18
Hari	12
Karan	5
Deeksha	7

Q14. The following graphs show the composition of food taken by Raghu this week. Complete the bar graph as per the pie chart given alongside.
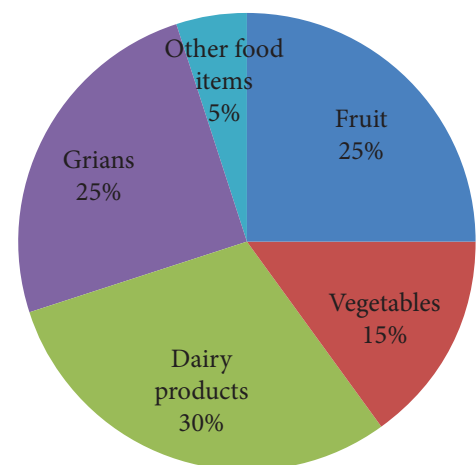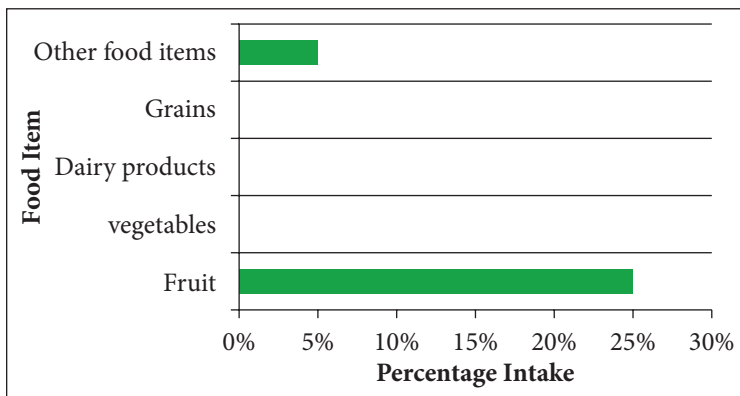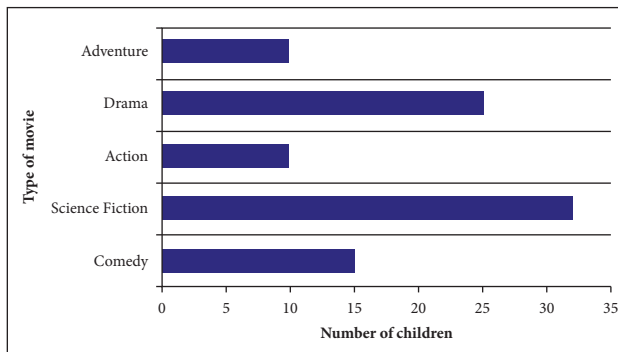
Q15. 100 children were asked the type of movie they liked the most and the results were recorded in the table below. As per the information given in the table which of the following graphs is incorrect?

Movie Type	Number of children
Comedy	20
Science Fiction	30
Action	15
Drama	25
Adventure	10

a.
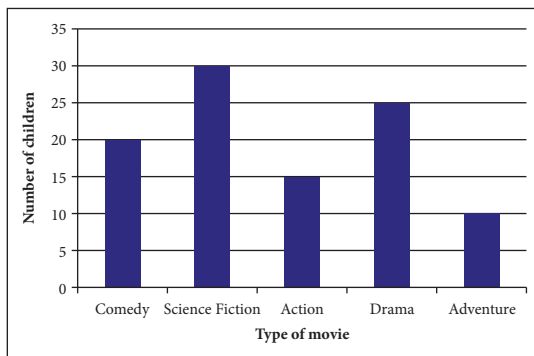
b.
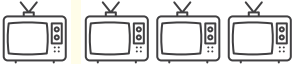
ANSWERS

1. a. Thursday;   b. 15;   c. Monday;   d. 105

2. **Number of students in various activities**
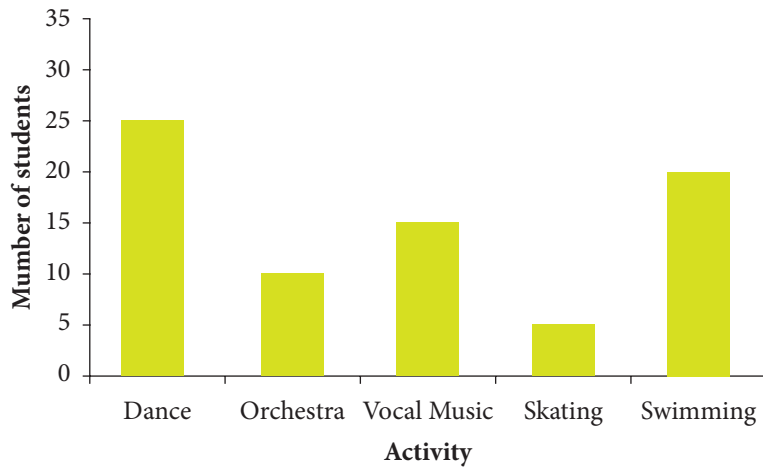
3.

Month name	Number of television sets sold
January	📺 📺 📺 📺
February	📺 📺 📺
March	📺 📺 📺 📺 📺
April	📺 📺 📺 📺 📺 📺
May	📺 📺 📺 📺 📺
June	📺 📺 📺 📺

Key: 1 📺 = 50 Television sets

4.

Week	Number of copies sold
1st week	500
2nd week	750
3rd week	100
4th week	1000

Number of copies sold in a month every week
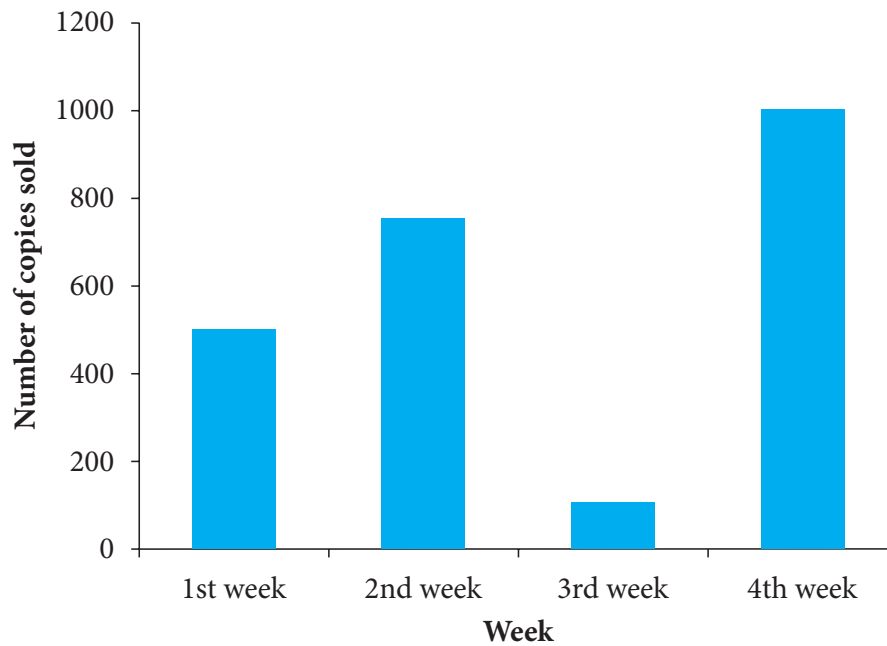
5. a. Sector 11 shop; b. 100 more equipments; c. 150 equipments; d. Sector 1 shop

6.

Subject	Marks
English	80
Hindi	85
Maths	95
Science	85
Social Science	75

7. a. Five; b. Sameer; c. Shekhar, Dushyant; d. One
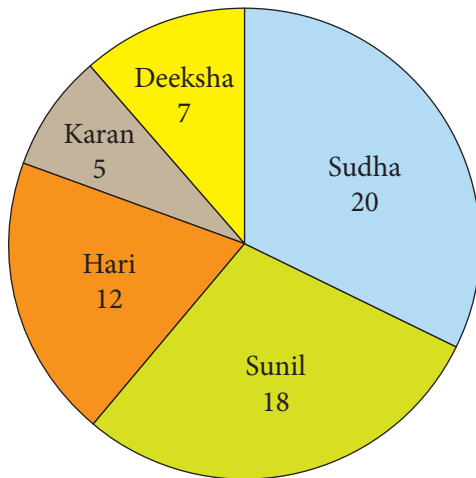
8. a. False; b. True; c. True; d. False

9. (b) Pie chart

10.

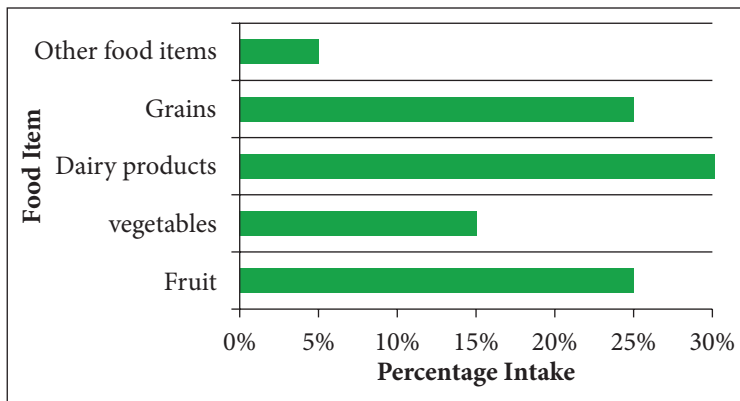| Pet	No. of owners	Degrees
Dogs	200	180°
Cats	80	72°
Fish	100	90°
Rabbits	20	18°

11.　a. 8 students;　　b. Grade B;　　c. 5 students;　　d. 40 students

12.　The sum of angles in the pie chart cannot be more than 360°.

13.

14.

15.　Answer: (b) is incorrect