Data Handling
<1M>
Q 1 The collection of facts, figures, numbers etc. is called......
Q 2 Fill in the blanks: Pictograph represents data in form of ..... 0
Q 3 Define bar graph.
Q 4 There are 25 students in class VI. Represent the number of students by tally marks.
Q 5 Fill in the blanks: The number represented by tally marks

$\qquad$ . <2M>
Q 6 Given Bar-Graph , represent the amount of oil purchased by the government from 1998-2005, Read the Graph and give your observation under following topics:

a) In which year maximum oil purchased ?
b) In which year minimum oil purchased?

Q 7 The following pictograph shows the number of students of class VI in a school, using the different means of transport to travel to school.

| Mode of traveling | Number of students 10 students ${ }^{\text {c/ }}$ |
| :---: | :---: |
| Private car |  |
| Public Bus |  |
| School Bus |  |
| cycle |  |
| Walking |  |

Find:
(a) Number of Students coming by Car.
(b) The Most Popular way of traveling used by the students.
(c) Which means of transport is used by the minimum number of students
(d) How many students are using the transport other than Car, School Bus, Cycle.
5. The number of girl students in each class of a co-educational middle school is depicted by the pictograph :

| Classes | Number of gir! students | - -4 Girls |
| :---: | :---: | :---: |
| I |  |  |
| II |  |  |
| III |  |  |
| IV | - \% |  |
| V | - ${ }^{\text {\% \% }}$ |  |
| VI |  |  |
| VII | - \% |  |
| VIII | - |  |

Observe this pictograph and answer the following questions :
(a) Which class has the minimum number of girl students?
(b) Is the number of girls in Class VI less than the number of girls in Class V ?
6. The sale of electric bulbs on different days of a week is shown below :

| Days | Number of electric bulbs $\quad \triangle-2$ Bulbs |
| :---: | :---: |
| Monday |  |
| Tuesday |  |
| Wednessay | $\triangle \theta$ O |
| Thursday |  |
| Friday |  |
| Saturday | S $* * *$ |
| Sunday |  |

(a) No.of bulbs manufactured on Tuesday?
(b) Total number of bulbs manufactured in a week?
8.

In a village six fruit merchants sold the following number of fruit baskets in a particular season:


Observe this pictograph and answer the following questions :
(a) Which merchant sold the maximum number of baskets?
(b) How many fruit baskets were sold by Anwar?
<3M>
3. With reference to the bar graph below, answer the following questions.
(i) Which class has the highest number of students?
(ii) Which class has the least population?
(iii) Arrange the classes in descending
order of population.
(iv) Find the total number of students in the senior classes (classes IX to XII).
(v) What is the total number of students in the school?
(vi) Which is the lowest class in the school?

Look at the given graph to answer the following questions.
(i) What is the information given by the bar graph?
(ii) At what time was the temperature the lowest?
(iii) At what time was it the highest?
(iv) At 4 o'clock in the afternoon there was a thunderstorm. How is this borne out by the graph?
(v) Using the maximum temperature and the minimum temperature, find the average temperature for the day.
(VI) What is the scale chosen on the vertical line representing the temperature


9
Observe this bar graph which is showing the sale of shirts in a ready made shop from Monday to Saturday.


Now answer the following questions :
(a) What information does the above bar graph give?
(b) What is the scale chosen on the horizontal line representing number of shirts?
(c) On which day were the maximum number of shirts sold? How many shirts were sold on that day?
(d) On which day were the minimum number of shirts sold?
(e) How many shirts were sold on Thursday?
(f) Find the total no. of Shirts sold in a week?
< $5 \mathrm{M}>$

Q 8 Following are the details of number of students present in a class of 40 students during a week. Draw the pictograph for this information.

| Days | Number of students present |
| :--- | :---: |
| Monday | 24 |
| Tuesday | 28 |
| Wednesday | 36 |
| Thrusday | 32 |
| Friday | 32 |
| Saturday | 24 |

Q 9 The data below represents the number of Maths books sold by a shopkeeper in six days.

| Days | Number of <br> books sold |
| :--- | :--- |
| Monday | 60 |
| Tuesday | 40 |
| Wednesday | 30 |
| Thursday | 50 |
| Friday | 30 |
| Saturday | 60 |

Draw a bar graph to represent the above data

Q 10 In a Mathematics test, marks obtained by the 40 students are as follows, arrange them in a table by using the tally marks.

| 8 | 1 | 3 | 7 | 6 | 5 | 5 | 4 | 4 | 2 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 4 | 9 | 5 | 3 | 7 | 1 | 6 | 5 | 2 | 7 |
| 7 | 3 | 8 | 4 | 2 | 8 | 9 | 5 | 8 | 6 |
| 7 | 4 | 5 | 6 | 9 | 6 | 4 | 4 | 6 | 6 |

Also find:
(a) How many students obtained maximum marks.
(b) How many students obtained minimum marks.
(c) How many students obtained marks more than 4.

Q 11

1. This table shows the average temperature of 6 fortnights during the winter season, at a hill station. Represent this by a pictograph, choosing an appropriate symbol and a suitable scale. Answer these questions.
(i) Which fortnight was the coldest and which the warmest?
(ii) Which fortnight shows the average temperature of the 6 fortnights.

| Fortnights | Temperature |
| :---: | :---: |
| 1 | $6^{\circ} \mathrm{C}$ |
| 2 | $7.5^{\circ} \mathrm{C}$ |
| 3 | $10^{\circ} \mathrm{C}$ |
| 4 | $11.5^{\circ} \mathrm{C}$ |
| 5 | $15^{\circ} \mathrm{C}$ |
| 6 | $18^{\circ} \mathrm{C}$ |

(iii) During which fortnight is the temperature exactly double of another one?
(iv) Which three months do you think this data represents? Why?

Q 12
2. Given below, is data collected during several occasions. Represent each of them by a pictograph, with an appropriate symbol and a suitable scale. Give each pictograph a proper title.
(i) Number of boys and giris in classes $V$ to $X$ in a school (First put the collected data in a tabular form)

| Class | Boys | Giris |
| :---: | :---: | :---: |
| v |  | Whe Whe TME |
| v | TME TEL |  |
| viI |  |  |
| ViII | 和 | THL THL TME III |
| IX |  |  |
| x | THE OW THE MES |  |

Q 13
4. Look at the graph and answer the following questions.
(i) What is the bar graph about?
(ii) Which game is the most popular in this school?
(iii) Which game is the least popular?
(iv) If each student is allowed to enroll for only one game, find the population of the school.
(v) By how much is the number of students playing football more than the number of students playing hockey?


Q 15

Q 16
6. (i) Using a scale of $1 \mathrm{~cm}=5$ lakh tonnes, plot a bar graph from the given data.
(ii) Study the graph drawn and answer the following questions.
(a) In which year was the production maximum?
(b) In which year was it minimum?
(c) Give the maximum and minimum production figures.
(d) What can you say about the increase in wheat production over the years?

| Year | Wheat production in a state <br> (in lakh tonnes) |
| :--- | :---: |
| 1976 | 25 |
| 1977 | 26 |
| 1978 | 30 |
| 1979 | 30 |
| 1980 | 35 |
| 1981 | 34 |
| 1982 | 40 |
| 1983 | 45 |
| 1984 | 50 |

Q 17
7. The following figures give you the average marks of a class in five subjects. Draw a bar graph to represent the data.

English : 62; Mathematics : 91; Science : 89; Social Studies : 55; Language : 56
After drawing the graph, answer the following questions.
(i) Which subject shows the maximum average marks and which shows the minimum?
(ii) By how much is the average in English more than the average in language?
(iii) What conclusion can you form about the class from the marks obtained in different subjects?

Q 18
8. The sales of fans per month in summer in five different shops is given below. Draw a pictograph to represent the data. Choose a suitable scale and an appropriate picture for the graph.
Ujjala Fans 210; Hava Mahal 125; Breezy Bazaar 425; Udhay Fans 360; Ratna Stores 520.
(i) What is the difference between the maximum and minimum sales?
(ii) Which company shows sales that is closest to the 'average'?
(iii) The difference between Breezy Bazaar and Ujjala Fans is approximately the same as the difference between which other two companies?

