

CHAPTER -14

Smart Charts

2MARK QUESTIONS



Q1. How much time do we spend on this?

Answer:

We spend about 1 hour every day watching television.

Q2. Note the time you spend in front of a TV or radio every day. Do this for one week. The time spent in a week is _____ hours.

Answer:

The time spent on TV in a week is seven hours.

Q3. So in a month, spend about $30 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$ hours.

Answer:

So in a month, spend about

$$30 \times 1 = 30 \text{ hours}$$

Q4. Find out from your friends the time they spend on TV in a week.

How many hours they watch TV or listen to the radio (in a week)	Number of children
More than 6 hours	
Six hours	
Five hours	
Four hours	
Three hours	
Two hours	
One hour	
Zero hour (do not watch)	



Answer:

I found out from my friends about the time they spend in a week on watching television as follows:

<i>How many hours they watch TV or listen to the radio (in a week)</i>	<i>Number of children</i>
More than 6 hours	30
Six hours	25
Five hours	25
Four hours	25
Three hours	20
Two hours	22
One hour	24
Zero hour (do not watch)	20

5Q. ____ children spend more than 6 hours in a week.

Answer:

30 children spend more than 6 hours in a week.

6Q. ____ children spend no time at all.

Answer:

20 children spend no time at all.

7Q. Most children spend ____ hours in a week.

Answer:

Most children spend more than 6 hours in a week.

8Q. ____ children spend more than 3 hours.

Answer:

105 children spend more than 3 hours.

Q9. Ask people in your family to name one programme they like and one programme they dislike. Make a table.

<i>Family member</i>	<i>Programme they like</i>	<i>Programme they dislike</i>
Mother		
Father		

The kind of programme most family members like ____.

The kind of programme most family members dislikes ____.

Answer:

My family members like and dislike programmes as detailed below:

<i>Family member</i>	<i>Programme they like</i>	<i>Programme they dislike</i>
Mother	Serials	News
Father	News	Serials
Sister	Music	News
Brother	Sports	Serials
Grandmother	Serials	Sports
Grandfather	News	Serials
Me	Music	News

The kind of programme most family members like is serials, news and music.

The kind of programme most family members dislike is serials and news.

Q10. Find out from 20 friends the programmes they like and dislike, and write in a table.

<i>Kind of programme</i>	<i>Number of children liking it</i>	<i>Number of children disliking it</i>
News		
Serials		
Cartoons		
Comedy shows		
Sports		

Answer:

I found from 20 friends the programmes which they like and dislike, as follows:

<i>Kind of programme</i>	<i>Number of children liking it</i>	<i>Number of children disliking it</i>
News	5	10
Serials	1	19
Cartoons	20	0
Comedy shows	18	2
Sports	9	11

(a) Which kind of programme is liked by most children?

Answer:

Cartoons and Comedy shows are the programmes which are liked by most children.

(b) Which kind of programme is disliked by the least number of children?

Answer:

Cartoons and Comedy shows are the programmes which are disliked by the least number of children.

(c) How many children like sports programmes?

Answer:

9 children like sports programmes.

(d) Is there any kind of programme not liked by anyone? Yes/No. If yes, which one?

Answer:

No, all the programmes are liked at least by one child.

5 MARK QUESTIONS

Who is my friend?

I've a friend with me always,
In the nights and through the days.
When I run he runs with me,
Sometimes I lead, sometimes he.
When it's dark he can't be seen,
Do you know which friend I mean?



1Q. Read the poem carefully and answer these questions:

- (a) Which word comes most often in the poem?**
- (b) Which letter has been used most?**
- (c) Which letter comes the least?**

Answer:

- (a)** The word 'I' comes most often in the poem.
- (b)** The letter 'E' is used most in the poem.
- (c)** The letter 'B' and 'V' comes least in the poem.

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2Q. Take a paragraph you like from your language textbook. Read carefully and find out the following:

- (a) Which word comes most often?**

How many times?

- (b) Which word comes the least?**
- (c) The letter used most often is ____.**
- (d) The letter used least is ____.**

Answer:

Consider this paragraph.

There are 4 houses on his land, and in the middle, there is a well. He wants to divide this land equally among his four children. Each should get one house and be able to use the well without entering the other's land.

(a) The word 'land' comes most often.

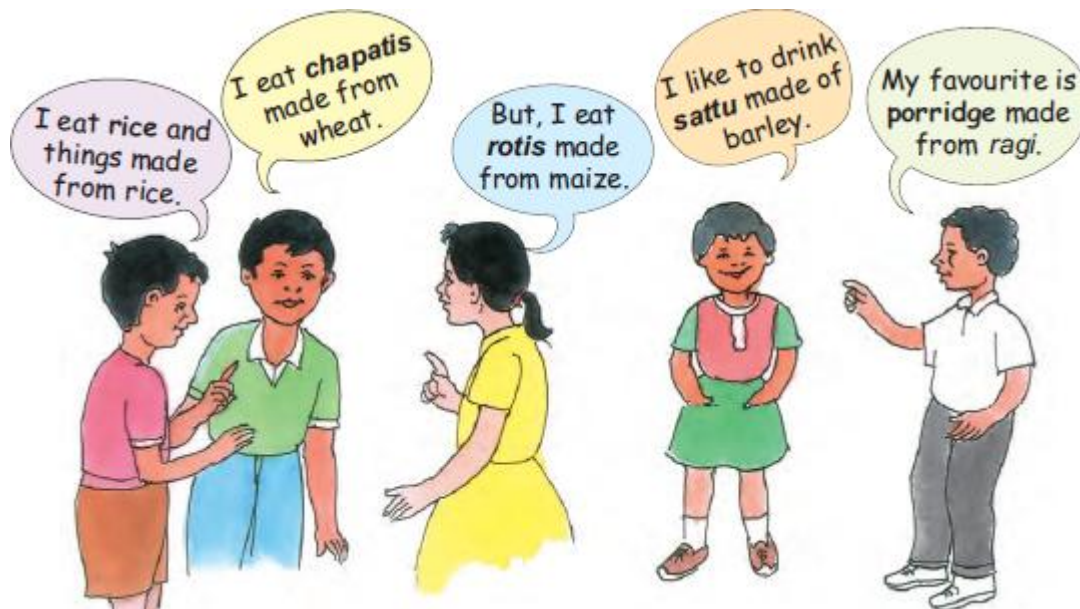
This word repeats three times in the paragraph.

(b) The words 'are', 'on' etc., come least in the paragraph.

(c) The letter used most often is 'E' by 26 times.

(d) The letter used least is 'F', 'Q', 'V' and 'Y' by one time.

Q3. Children were talking about what things they eat in the morning — made of rice, wheat, maize, barley, etc.



Find out from your classmates and fill in the table:

Main food	Number of persons
Rice	
Wheat	

Answer:

I discussed with my classmates and filled the table as given below:

Matn food	Number of persons
Rice	50
Wheat	49
Maize	6
Barley	5
Ragi	4

(a) Most children eat food made from ____.

Answer:

Most children eat food made from rice.

(b) Compared to children who eat rice, those who eat wheat are more/less/equal.

Answer:

Compared to children who eat rice, those who eat wheat are less.

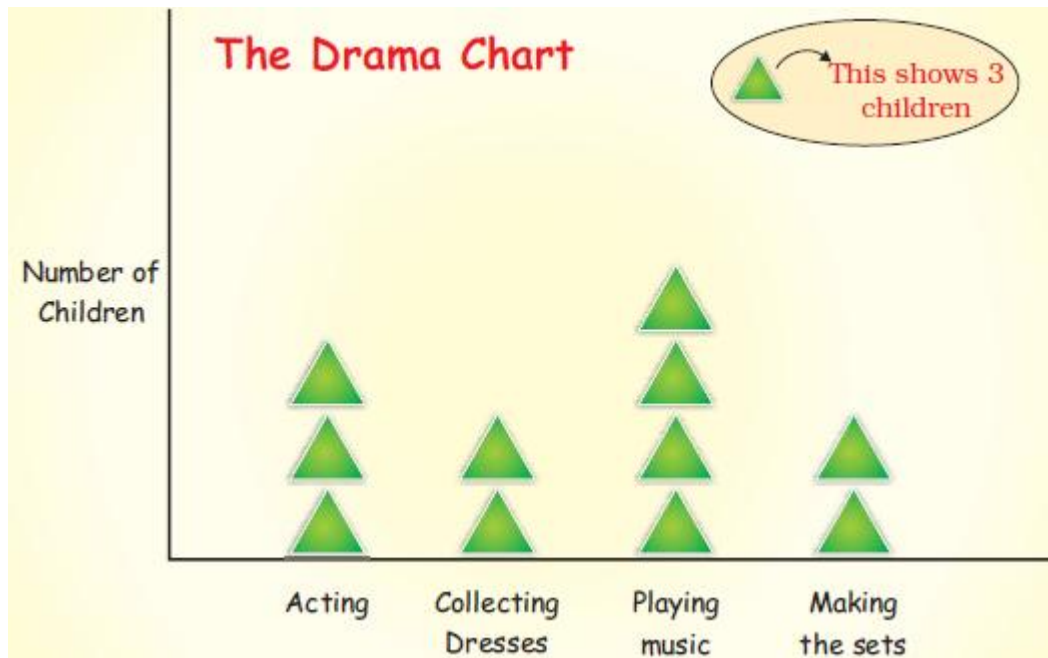
(c) Compared to those who eat wheat, children eating ragi are more/less.

Answer:

Compared to those who eat wheat, children eating ragi are less.

Q4. All children in the class are getting ready for a drama. Some children are acting. Some are busy collecting dresses. Some are bringing tables and chairs to make the sets.





(a) How many children are acting in the drama?

Answer:

9 children are acting in the drama.

(b) Which are more – children making the sets or those acting?

Answer:

9 children are acting, and 6 children are making the sets.

Therefore, the number of children acting is more than making the sets.

(c) What is being done by most of the children?

Answer:

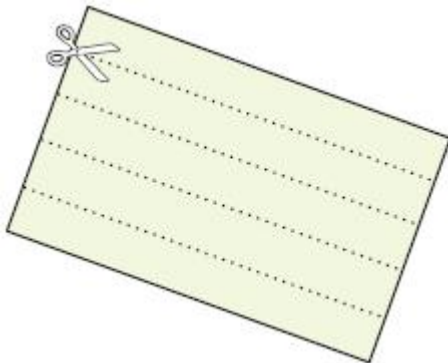
Most of the children are playing music.

(d) How many children are collecting dresses?

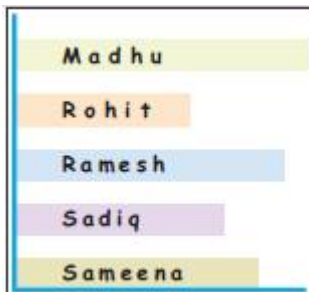
Answer:

6 children are collecting dresses.

Q5. Cut long paper strips from waste paper. Give one strip to each of your friends. Now, put the paper strip around your head and tear off the extra strip. On a big sheet, paste these paper strips along a line.



Some children had pasted their strips and made a chart like this.



Your chart should also look like this.

Use a scale and find out from your chart:

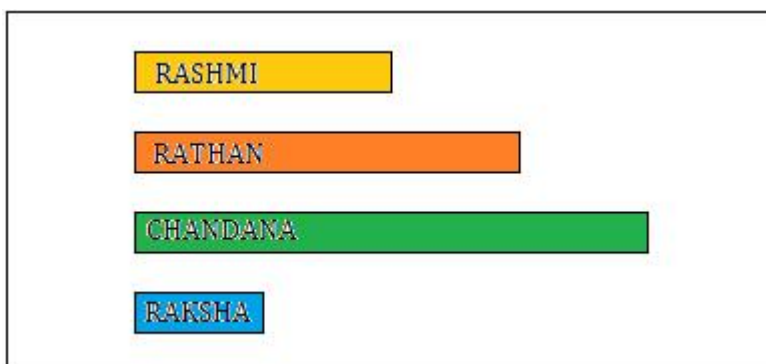
The length of the longest strip is ____ cm.

So ____ has the biggest head.

The smallest strip is ____ cm long. It belongs to ____.

Answer:

My friend's pasted strips in the following chart:



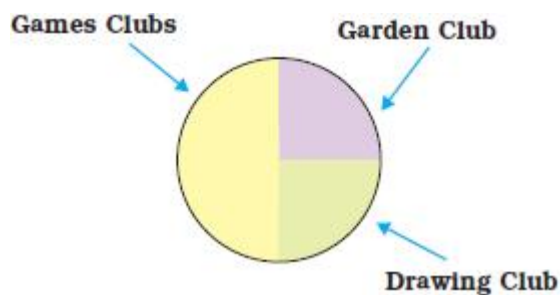
The length of the longest strip is 50 cm.

So, Chandana has the biggest strip.

The smallest strip is 30 cm long. It belongs to Raksha.



The Chapati Chart shows the number of children in different clubs.



From the picture, we can see that:

- (a) Half the children in the class take part in the Games Club.
- (b) One-fourth of the children are members of the Garden Club.
- (c) The Drawing Club has one-fourth of the children in the class.

If there are 200 students in the school, look at the above Chapati Chart and tell the number of members in each club:

1. The Games Club has ____ members.

Answer:

The Games Club has 100 members.

2. The Garden Club has ____ members.

Answer:

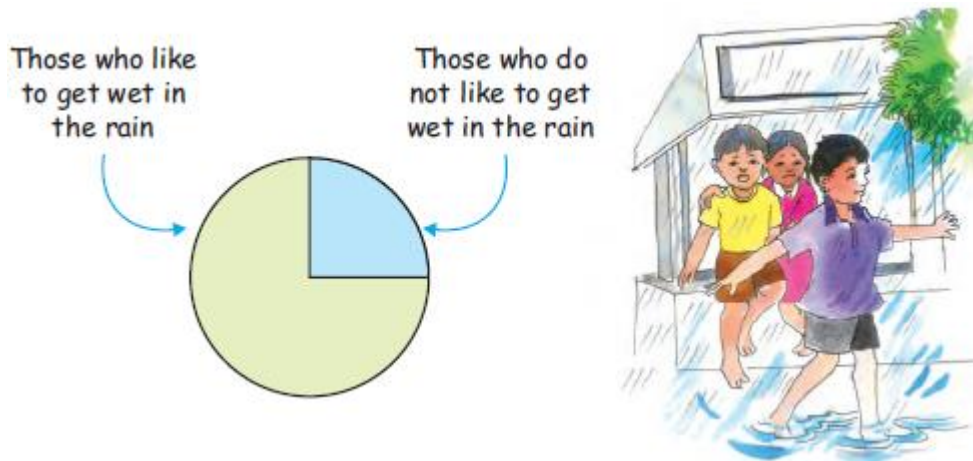
The Garden Club has 50 members.

3. There are ____ members in the Drawing Club.

Answer:

There are 50 members in the Drawing Club.

Q6. Who likes to get wet in the rain? A child made this Chapati Chart after asking his friends.



See the Chapati Chart and tell:

(1) How many children like to get wet in the rain?

(a) half (b) one-fourth (c) three-fourth

Answer:

(c) **Three-fourth** of the children like to get wet in the rain.

(2) How many children do not like to get wet in the rain?

(a) half (b) one-fourth (c) three-fourth

Answer:

(b) **One-fourth** of the children do not like to get wet in the rain.

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(3) If the number of children in the class is 28, then tell the number of children who like to get wet in the rain.

Answer:

21 children like to get wet in the rain.

How many children do not like to get wet in the rain?

Answer:

7 children do not like to get wet in the rain.

Q7. Some children were asked which of these they liked most – Tea, Coffee or Milk.

<i>The drink they like</i>	<i>Number of children</i>
Milk	20
Coffee	10
Tea	10

Total Number of
children



Answer:

The total number of children is 40.

Multiple-Choice Questions (MCQs):

Q1.Which type of chart is used to represent data through bars of varying lengths?

- A) Pie Chart**
- B) Line Chart**
- C) Bar Chart**
- D) Scatter Plot**

Answer: C) Bar Chart

Q2.What is the purpose of a pie chart?

- A) Showing trends over time**
- B) Comparing quantities**
- C) Displaying percentages**
- D) Representing coordinates**

Answer: C) Displaying percentages

Q3.Which type of chart is suitable for showing the relationship between two variables?

- A) Line Chart**
- B) Scatter Plot**
- C) Bar Chart**
- D) Pie Chart**

Answer: B) Scatter Plot

Q4. In a line chart, what does the line represent?

- A) Categories**
- B) Percentages**
- C) Time**
- D) Quantities**

Answer: D) Quantities

Q5. Which chart is useful for comparing parts to the whole?

- A) Bar Chart**
- B) Scatter Plot**
- C) Pie Chart**
- D) Line Chart**

Answer: C) Pie Chart

Fill in the Blanks:

Q1.A chart is a visual representation of _____.

Answer: data

Q2.The horizontal axis of a chart is also called the _____ axis.

Answer: x

Q3.In a bar chart, the length of the bars represents the _____ being measured.

Answer: quantity

Q4.A line chart is often used to show trends or changes over _____.

Answer: time

Q5.A pie chart is divided into _____, each representing a portion of the whole.

Answer: slices