

Smart Charts

Question 1:

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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:

Observe the time you spend watching TV or listening to the radio and keep a record of it for a week. The answer may vary from student to student.

A sample answer is:

Suppose you spend 1 hour daily watching TV, then time spent in a week is 7 hours.

Question 2:

So in a month you spend about $30 \times \underline{\quad} = \underline{\quad}$ hours.

Answer:

The answer will vary based on the previous answer. There are 30 days in a month. Multiply the time spend in a day by 30 to get the total time spent watching TV or listening to the radio in a month.

A sample answer is:

The time spent in a day is 1 hour.

Therefore, time spent in a month is:

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

Question 3:

Find out from your friends the time they spend 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:

Ask your friends to keep a record of the time they spend in front of the TV or radio in a week and fill in the table accordingly. The answer will vary based on the information collected by your friends.

A sample answer is:

How many hours they watch TV or listen to the radio (in a week)	Number of children
More than 6 hours	8
Six hours	5
Five hours	9
Four hours	7
Three hours	6
Two hours	4
One hour	3
Zero hour (do not watch)	5

Question 4:

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From your table

Watching TV/listening to the radio...

_____ children spend more than 6 hours in a week.

_____ children spend no time at all.

Most children spend _____ hours in a week.

_____ children spend more than 3 hours.

Answer:

Observe the data entered in the table to answer this question. The answer will vary based on the previous table.

A sample answer is: Education, International Approach

8 children spend more than 6 hours in a week.

5 children spend no time at all.

Most children spend 5 hours in a week.

The table shows that 7 children spend 4 hours in a week, 9 children spend 5 hours in a week, 5 children spend 6 hours in a week, and 8 children spend more than six hours in week.

Add 7, 9, 5, and 8 to get the total number of children that spend more than 3 hours in a week.

$$7 + 9 + 5 + 8 = 29$$

Therefore, 29 children spend more than three hours.

Question 5:

(1) 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		

Answer:

Ask each of your family members to name one TV programme that they like and one programme that they dislike and note them down in the table. The answer may vary from student to student based on their family and their choices.

A sample answer is:

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

Question 6:

The kind of programme most family members like ____.

Answer:

The answer will vary based on the previous table. Observe the data in the table carefully and find out the programme that is most liked by majority of the family members.

A sample answer is:

ORCHIDS
The International School

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

The table shows that most of the family members like News.

Question 7:

The kind of programme most family members dislike _____.

Answer:

The answer will vary based on the previous table. Observe the data in the table carefully and find out the programme that is most disliked by majority of the family members.

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

The table shows that most of the family members dislike serials.

Question 8:

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2) Find out from 20 friends the programmes they like and dislike, and write down the information in the 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:

Ask 20 of your friends about the programmes they like and dislike and keep a count of the number of friends that like and dislike the programmes. Enter the data in the table. The answer may vary based on your friend's choice.

A sample answer is:

Kind of programme	Number of children liking it	Number of children disliking it
News	4	4
Serials	2	7
Cartoons	9	0
Comedy shows	4	4
Sports	1	5

Question 9

Which kind of programme is liked by most children?

Answer:

The answer will vary based on the previous table. Observe the second column, i.e., "Number of children liking it" and look for the highest number. The programme that corresponds to the highest number will be the correct answer.

A sample answer is:

Kind of programme	Number of children liking it	Number of children disliking it
News	4	4
Serials	2	7
Cartoons	9	0
Comedy shows	4	4
Sports	1	5

The table shows that most of the children like cartoons.

Question 10:

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

Answer:

The answer will vary based on the previous table. Observe the third column, that is “Number of children disliking it” and look for the lowest number. The programme that corresponds to the lowest number will be the correct answer.

A sample answer is:

Kind of programme	Number of children liking it	Number of children disliking it
News	4	4
Serials	2	7
Cartoons	9	0
Comedy shows	4	4
Sports	1	5

The table shows that most of the children dislike serials.

Question 11:

How many children like sports programmes?

Answer:

Answers will vary based on the previous table. Observe the last row and the second column, that is, “Number of children liking it” to check the number of children who like sports programmes.

A sample answer is:

Kind of programme	Number of children liking it	Number of children disliking it
News	4	4
Serials	2	7
Cartoons	9	0
Comedy shows	4	4
Sports	1	5

The table shows that 1 child likes sports.

Question 12:

Is there any kind of programme not liked by anyone? Yes/No.

If yes, which one?

Answer:

Answers will vary based on the previous table. Observe the second column, that is, “Number of children liking it” and check if any row has 0. If it has 0 then there are programmes that are not liked by anyone or else there will be no programme that is not liked by anyone.

A sample answer is:

Kind of programme	Number of children liking it	Number of children disliking it
News	4	4
Serials	2	7
Cartoons	9	0
Comedy shows	4	4
Sports	1	5

The table shows that there is no such programme that is not liked by any children.

Question 13:

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Read the poem carefully and answer these questions:

a) Which word comes most often in the poem?

Answer:

It can be observed that the word “I” has been used most often in the poem.

In the entire poem the word “I” is used 4 times.

Question 14:

b) Which letter has been used most?

Answer:

It can be observed that the letter “e” has been most often in the poem. In the entire poem the letter “e” is used 20 times.

Question 15

c) Which letter comes the least?

Answer:

It can be observed that the letters “b” and “v” are least used in the poem. The letters “b” and “v” are used only once in the entire poem.

Question 16:

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

a) Which word comes most often?

How many times? _____

Answer:

Answers may vary based on the paragraph selected. Choose any paragraph from your language textbook and read it carefully. Observe

the words in the paragraph that have been repeated the maximum number of times. Count the number of times it is repeated to answer the question.

Question 17:

b) Which word comes least often? _____

Answer:

Answers may vary based on the paragraph selected. Observe the words in the paragraph that have been repeated the minimum number of times to answer the question.

Question 18:

c) The letter used most often is _____

Answer:

Answers may vary based on the paragraph selected. Observe each letter that is used in the paragraph and count the number of times it is used. Then find out the letter that has been used the most.

Question 19:

d) The letter used least often is _____

Answer:

Answers may vary based on the paragraph selected. Observe each letter that is used in the paragraph and count the number of times it is used. Then find out the letter that has been used the least.

Question 20:

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Find out from your classmates and fill the table:

Main food	Number of persons
Rice	
Wheat	

Answer:

Ask your friends about their main food. Count the number of friends that eat the same kind of food and enter it in the table. Answers may vary based on the information collected from your friends.

A sample answer is:

Main food	Number of persons
Rice	23
Wheat	25
Ragi	7
Maize	13
Barley	12

Question 21:

Look at the table and tell:

Most children eat food made from _____.

Answer:

Answers may vary based on the table in the previous answer. Observe the information in the table and look at the largest number in the second column. The main food that corresponds to the largest number is the correct answer.

A sample answer is:

Main food	Number of persons
Rice	23
Wheat	25
Ragi	7
Maize	13
Barley	12

The table shows that most of the children eat food made from rice.

Question 22:

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

Answer:

Answers will vary based on the table in the previous answer. Observe the information in the table and see the number of children who eat rice and wheat. Check if the number of children eating rice is more/less/equal to the number of children eating wheat.

A sample answer is:

Main food	Number of persons
Rice	23
Wheat	25
Ragi	7
Maize	13
Barley	12

The table shows that 23 children eat food made from rice and 25 children eat food made from wheat. Therefore, the children who eat rice are less in comparison to the children who eat wheat.

Question 23:

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

Answer:

Answers will vary based on the table in the previous answer. Observe the information in the table and see the number of children who eat wheat and *ragi*. Check if the number of children eating wheat is more or less than the number of children eating *ragi*.

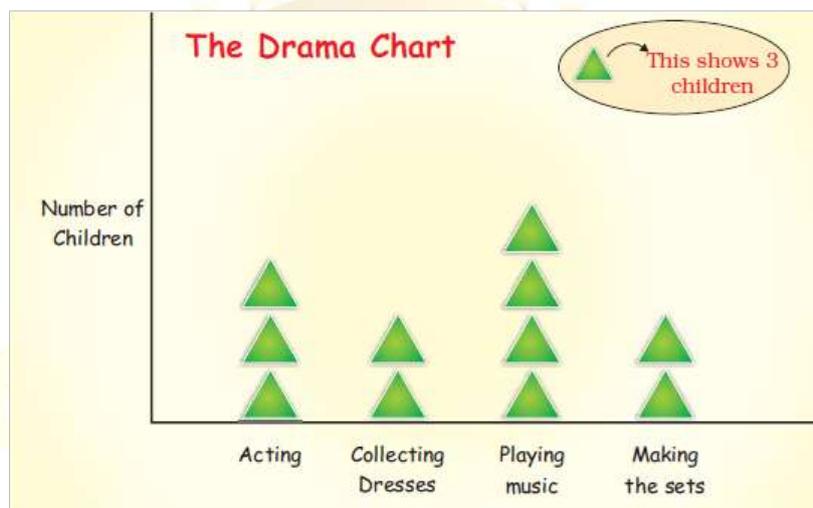
A sample answer is:

Main food	Number of persons
Rice	23
Wheat	25
Ragi	7
Maize	13
Barley	12

The table shows that 25 children eat food made from wheat and 7 children eat food made from *ragi*. Therefore, the children who eat wheat are more in comparison to the children who eat *ragi*.

Question 24:

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a) How many children are acting in the drama?

Answer:

Each green triangle represents 3 children. From the table chart, it can be observed that there are 3 green triangles for acting.

Multiply 3 by 3 to get the number of children acting in the drama.

$$3 \times 3 = 9$$

Therefore, 9 children are acting in the drama.

Question 25:

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

Answer:

The number of children acting is equal to 9.

There are 2 green triangles for making the sets. Multiply 3 by 2 to get the number of children making the sets.

$$2 \times 3 = 6$$

Therefore, there are 6 children making the sets in the drama. Hence, the number of children acting is more than the number of children making the sets.

Question 26

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

Answer:

It is observed from the table chart that the maximum number of green triangles are in playing the music. Therefore, most of the children play the music in the drama.

Question 27:

d) How many children are collecting dresses?

Answer:

Each green triangle represents 3 children. From the table chart, it can be observed that there are 3 green triangles for collecting dresses. Multiply 2 by 3 to get the number of children collecting dresses.

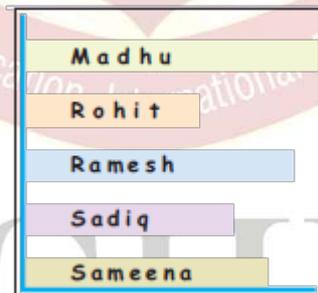
$$2 \times 3 = 6$$

Therefore, 6 children are collecting dresses in the drama.

Question 28:

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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.

Answer:

Take a sheet of waste paper and cut it into a few strips. Give one strip to each friend. Ask your friend to put the strip around their head and cut off the extra bits. Place all the strips on a sheet to make a chart. The answer may vary based on the friend's head.

Question 29:

Use a scale and find out from your chart:

The length of the longest strip is _____ cm. So _____ has the biggest head.

Answer:

Answers may vary based on the chart in the previous answer. Observe the length of each strip and check which is the longest one. Take a ruler and measure the length of the longest strip and also check who has the biggest head.

Question 30:

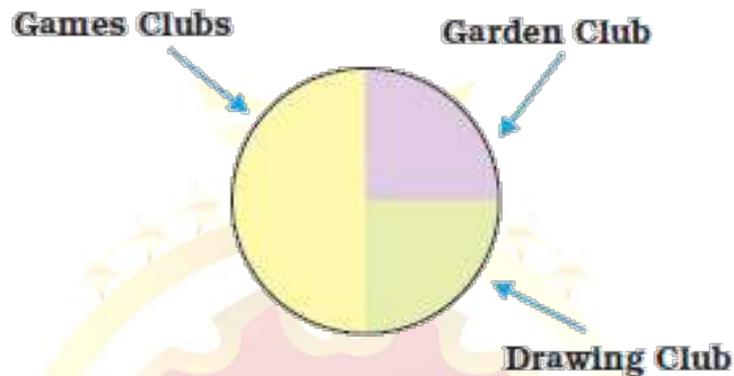
The smallest strip is _____ cm long. It belongs to _____.

Answer:

Answers may vary based on the chart in the previous answer. Observe the length of each strip and check which is the smallest one. Take a ruler and measure the length of the smallest strip and also check who has the smallest head.

Question 31:

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



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

The Games Club has _____ members.

Answer:

The above *Chapati* Chart shows that half of the students are the members of the Games Club.

The total number of students is 200. Divide 200 by 2 to get the number of students who are members of Games Club.

$$200 \div 2 = 100$$

Hence, the Games Club has 100 members.

Question 32:

The Garden Club has _____ members.

Answer:

The *Chapati* Chart shows that one-fourth of the students are the members of the Garden Club.

The total number of students is 200. Divide 200 by 4 to get the number of students who are members of the Garden Club.

$$200 \div 4 = 50$$

Hence, the Garden Club has 50 members.

Question 33:

There are _____ members in the Drawing Club.

Answer:

The *Chapati* Chart shows that one-fourth of the students are the members of the Drawing Club.

The total number of students is 200. Divide 200 by 4 to get the number of students who are members of the Drawing Club.

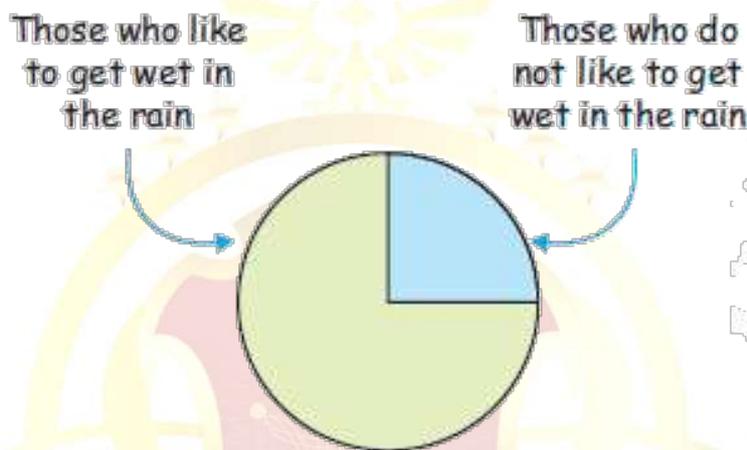
$$200 \div 4 = 50$$

Hence, there are 50 members in the Drawing Club.

Question 34:

Page 169-170

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:

Observe the *Chapati* Chart. If you divide the circle into four equal parts, three parts represent the children who like to get wet in the rain. Therefore, three-fourth of the children like to get wet in the rain.

Hence, option c) is the correct answer.

Question 35:

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

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

Answer:

Observe the *Chapati* Chart. If you divide the circle into four equal parts, one part represents the children who do not like to get wet in the rain.

Therefore, one-fourth of the children do not like to get wet in the rain.

Hence, option b) is the correct answer.

Question 36:

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:

Step 1: The total number of children is 28.

Three-fourth of the children like to get wet in the rain. Divide 28 by 4 to get one-fourth of the children.

$$28 \div 4 = 7$$

Step 2: Multiply 7 by 3 to get three-fourth of the total children.

$$7 \times 3 = 21$$

Therefore, 21 children like to get wet in the rain.

Question 37:

Who do not like to get wet in the rain _____

Answer:

Total number of children is 28.

Number of children who like to get wet in the rain is 21.

Subtract 21 from 28 to get the number of children who do not like to get wet in the rain.

$$28 - 21 = 7$$

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

Question 38:

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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:

Add 20, 10, and 10 to get the total number of children.

$$20 + 10 + 10 = 40$$

Therefore, there are 40 children in total.

Question 39

Find out from the table:

Children who like milk are $\frac{1}{2} / \frac{1}{4}$ of the total children.

Answer:

Total number of children is 40.

Number of children who like milk is 20 which is half of the total students. Therefore, children who like milk are $\frac{1}{2}$ of the total children.

Question 40:

Children who like coffee are $\frac{1}{2} / \frac{1}{4}$ of the total children.

Answer:

Total number of children is 40.

Number of children who like milk is 10 which is equal to one-quarter of the total student.

Therefore, children who like coffee are $\frac{1}{4}$ of the total children.

Question 41:

Show the liking for Tea, Coffee or Milk in a *Chapati* Chart.

Answer:

From the table: Half of the children like milk, one- quarter of the children like coffee, and one-quarter of the children like tea.

Draw a circle and shade half of a circle with a colour to represent the children who like milk, shade one-quarter of the circle with another colour to represent the children who like coffee, and shade one- quarter of the circle with a different colour to represent the children who like tea.

