

Chapter 14: Smart Charts

NCERT · Class 4 · Maths

Questions

Question 1

How much time do we spend on this?

Solution

We spend about 1 hour every day watching television.

Question 2

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.

Solution

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

Question 3

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

Solution

So in a month, spend about

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

Question 4

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

<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	
Six hours	
Five hours	
Four hours	
Three hours	
Two hours	
One hour	
Zero hour (do not watch)	



Solution

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

Watching TV/ listening to the radio ...

Question 1

_____ children spend more than 6 hours in a week.

Solution

30 children spend more than 6 hours in a week.

Question 2

_____ children spend no time at all.

Solution

20 children spend no time at all.

Question 3

Most children spend ____ hours in a week.

Solution

Most children spend more than 6 hours in a week.

Question 4

____ children spend more than 3 hours.

Solution

105 children spend more than 3 hours.

Which Programme?

There are different types of programmes on TV or radio, such as cartoons, news, sports, music, plays, and serials. Juhi's father likes watching serials. Her mother likes sports. Juhi likes news programmes.

(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		

The kind of programme most family members like ____.

The kind of programme most family members dislikes ____.

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.

NCERT Textbook · Textbook page 164

Question 1

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		

Solution

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?

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?

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

(c) How many children like sports programmes?

9 children like sports programmes.

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

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

NCERT Textbook (2) · Textbook page 164

Question 1

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?

Solution

(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.

NCERT Textbook (3) · Textbook page 165

Question 2

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

How many times?

A.

Which word comes most often?

B.

Which word comes the least?

C.

The letter used most often is ____.

D.

The letter used least is ____.

Solution

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.

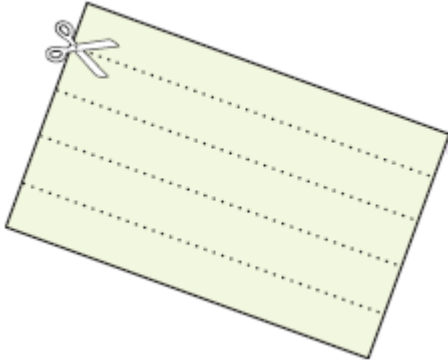
(c) The letter used most often is 'E' by 26 times.

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

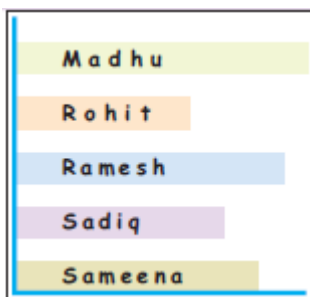
Whose Head is Bigger?

Question 1

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:

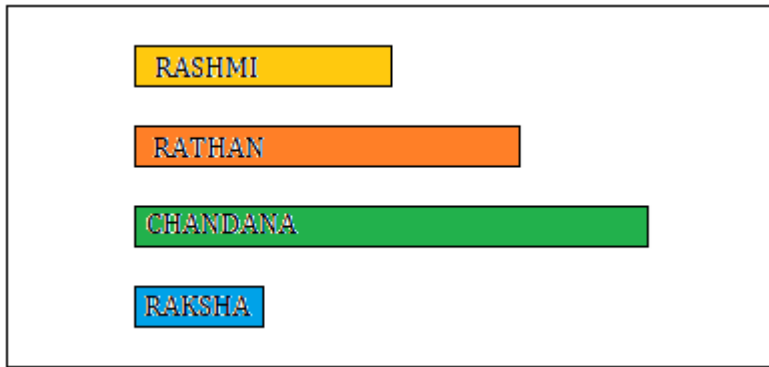
The length of the longest strip is ____ cm.

So ____ has the biggest head.

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

Solution

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.

NCERT Textbook (4) · Textbook page 168

Question 1

The Games Club has ____ members.

Solution

The Games Club has 100 members.

Question 2

The Garden Club has ____ members.

Solution

The Garden Club has 50 members.

Question 3

There are ____ members in the Drawing Club.

Solution

There are 50 members in the Drawing Club.