

NCERT Solutions for Class 4 Maths Chapter 14: NCERT Solutions for Class 4 Maths Chapter 14 Smart Charts are designed to help students learn how to collect, organize, and represent data through charts.

By practicing the solved questions students can improve their ability to analyze and interpret data easily. The solutions are prepared by subject experts based on the latest CBSE syllabus making the concepts clear and simple for young learners. These solutions will help students build confidence and perform well in their exams.

NCERT Solutions for Class 4 Maths Chapter 14 Smart Charts Overview

NCERT Solutions for Class 4 Maths Chapter 14 Smart Charts are prepared by subject experts of Physics Wallah to help students understand the concepts of data collection, organization, and representation through charts.

The solutions provide clear and easy-to-follow explanations for all exercises making it easier for students to understand and apply the concepts. With these solutions students can enhance their logical thinking and creativity while mastering the topic of patterns.

NCERT Solutions for Class 4 Maths Chapter 14 Smart Charts PDF

The PDF link for NCERT Solutions for Class 4 Maths Chapter 14 Smart Charts is provided below for easy access.

The PDF is designed to provide simple explanations and step-by-step solutions ensuring students can easily follow along and improve their understanding. By practicing with this PDF students can build confidence and enhance their performance in exams.

NCERT Solutions for Class 4 Maths Chapter 14 Smart Charts PDF

NCERT Solutions for Class 4 Maths Chapter 14 Smart Charts

Here we have provided NCERT Solutions for Class 4 Maths Chapter 14 Smart Charts-

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How Many Hours?

All of us enjoy watching television (TV) or listening to the radio.



1. How much time do we spend on this?

Answer:

We spend about 1 hour every day watching television.

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.

Answer:

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

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

Answer:

So in a month, spend about

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

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)	



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

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From your table

Watching TV/ listening to the radio ...

1. ____ children spend more than 6 hours in a week.

Answer:

30 children spend more than 6 hours in a week.

2. ____ children spend no time at all.

Answer:

20 children spend no time at all.

3. Most children spend ____ hours in a week.

Answer:

Most children spend more than 6 hours in a week.

4. ____ children spend more than 3 hours.

Answer:

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 ____.

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.

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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		

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.

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?



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?

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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2. 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.

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Food We Eat

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:

<i>Main food</i>	<i>Number of persons</i>
Rice	
Wheat	

Answer:

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

<i>Main food</i>	<i>Number of persons</i>
Rice	50
Wheat	49
Maize	6
Barley	5
Ragi	4

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Look at the table and tell:

(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.

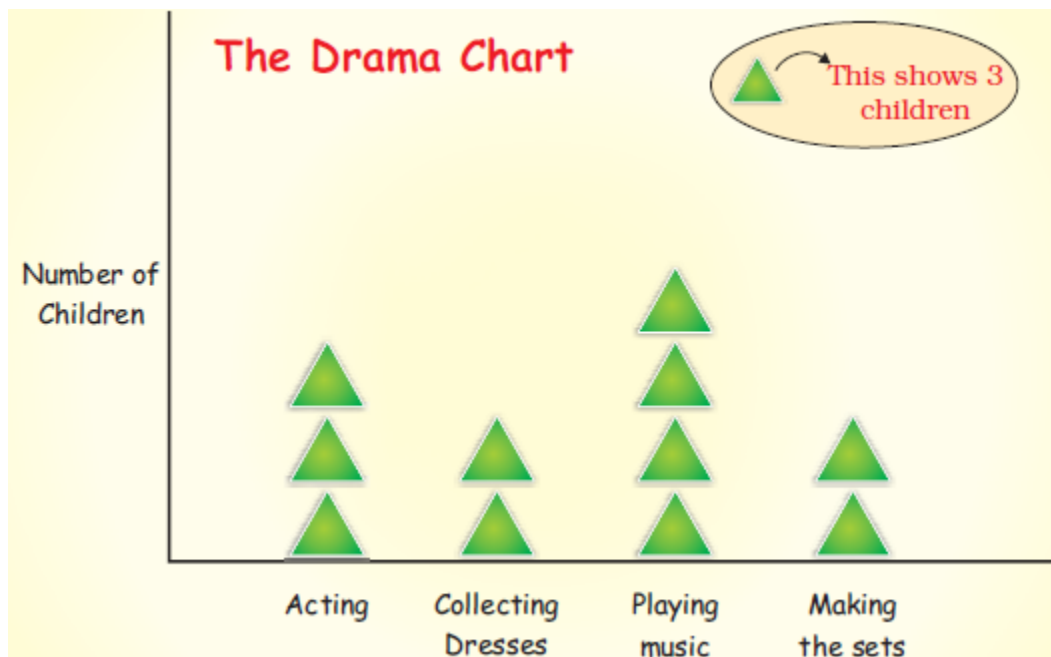
Answer:

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

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Preparing for the Class Drama

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.

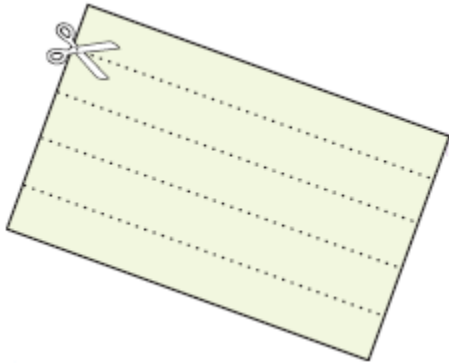
(d) How many children are collecting dresses?

Answer:

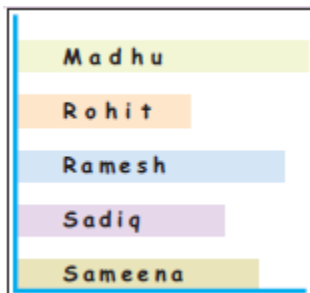
6 children are collecting dresses.

Whose Head is Bigger?

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:

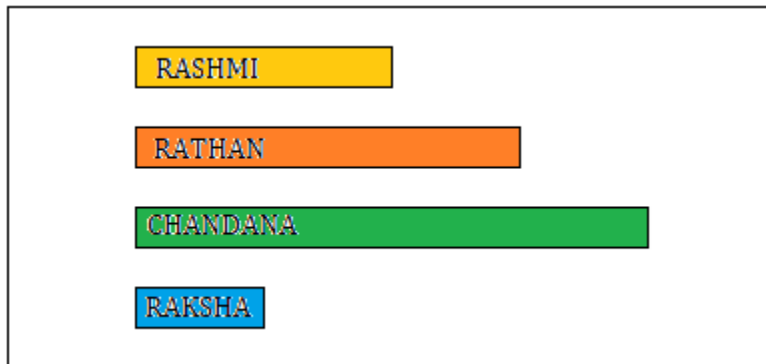
The length of the longest strip is ____ cm.

So ____ has the biggest head.

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

Answer:

My friend's pasted strips in the following chart:



The length of the longest strip is 50 cm.

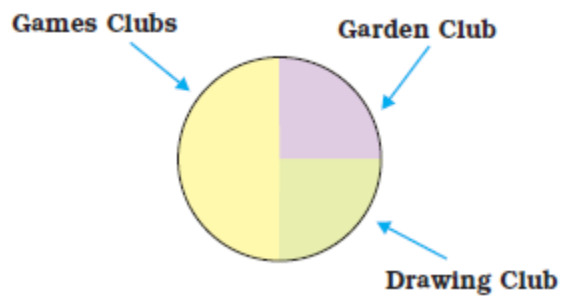
So, Chandana has the biggest strip.

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

All children of a school take part in different clubs:



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.

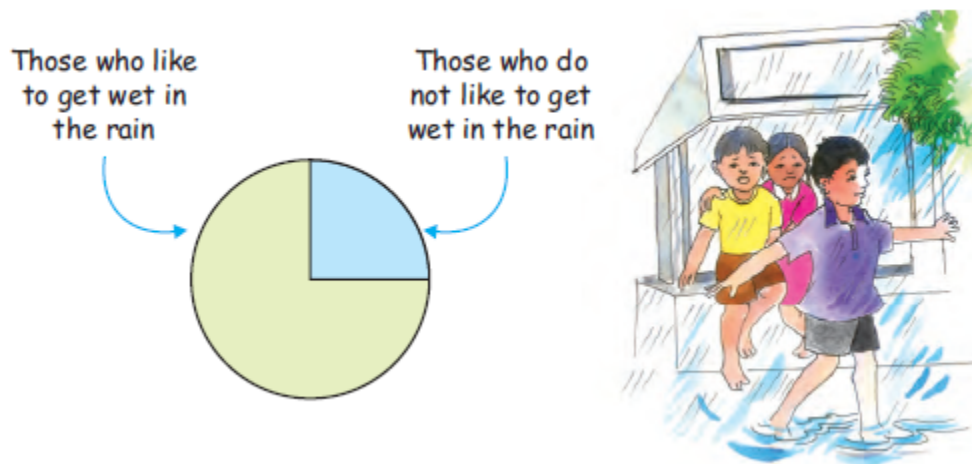
Answer:

There are 50 members in the Drawing Club.

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Getting Wet in the Rain

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.

(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.

Tea, Coffee or Milk

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.

Find out from the table:

(1) Children who like milk are _____ of the total children. ($\frac{1}{2}$ or $\frac{1}{4}$)

Answer:

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

(2) Children who like coffee are _____ of the total children. ($\frac{1}{2}$ or $\frac{1}{4}$)

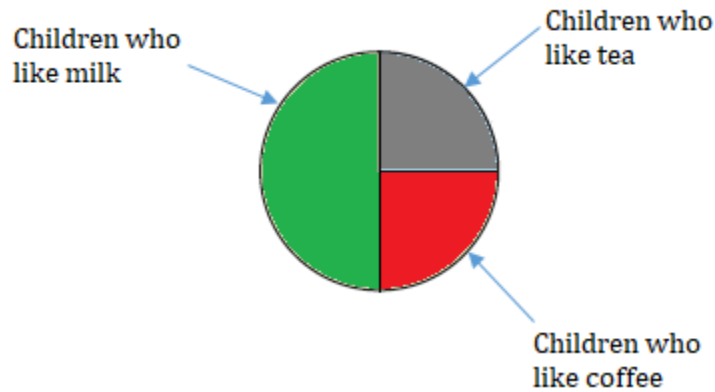
Answer:

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

(3) Show the liking for Tea, Coffee or Milk in a Chapati Chart.

Answer:

The Chapati Chart of children liking Tea, Coffee or Milk is given below.



Benefits of NCERT Solutions for Class 4 Maths Chapter 14 Smart Charts

- **Concept Clarity:** The solutions provide clear explanations of data collection, organization, and representation helping students understand complex concepts with ease.
- **Step-by-Step Guidance:** Each problem is solved with a step-by-step approach making it easier for young learners to follow along and apply the concepts.
- **Aligned with CBSE Syllabus:** These solutions are designed according to the latest CBSE syllabus, ensuring that students are well-prepared for their exams.
- **Improves Analytical Skills:** By practicing questions related to charts and graphs, students enhance their ability to analyze and interpret data which is an important life skill.
- **Builds Confidence:** Regular practice with these solutions boosts students confidence in handling data-related problems improving their overall performance in exams.
- **Easy Access in PDF Format:** The solutions are available in PDF format, making them easily accessible for students to study anytime, anywhere.