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# NCERT Solutions for 4th Class Maths Chapter 14-Smart Charts



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## NCERT Solutions for 4th Class 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 in this?

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Ans. Usually, I spend about 1 hour every day on TV.

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.

Ans. The time spent on TV in a week is about 7 hours.

3. So in a month you spend about  $30 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$  hours.

Ans. In a month I spend about  $30 \times 1 = 30$  hours

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

Ans. I talked to my friends about their hours spent on TV which are 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	20
Six hours	15
Five hours	15
Four hours	15
Three hours	10
Two hours	12
One hour	14
Zero hour (do not watch)	10

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From your table:

Watching TV/listening to the radio...

1. \_\_\_\_\_ children spend more than 6 hours in a week.

Ans. 20 children spend more than 6 hours in a week.

2. \_\_\_\_\_ children spend no time at all.

Ans. 10 children spend no time at all.

3. Most children spend \_\_\_\_\_ hours in a week.

Ans. More children spend 20 hours in a week.

4. \_\_\_\_\_ children spend more than 3 hours.

Ans. 101 children spend more than 3 hours.

Which Programme?

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

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

Ans. In my family people likes and dislikes these programmes

<i>Family members</i>	<i>Programmes they like</i>	<i>Programmes they dislike</i>
Father	News	Serials
Mother	Serials	Movie
Grandfather	News	Serials
Grandmother	Serials	Sport
Brother	Movie	Serials
Sister	Music	News
Me	Sports	Serials

• The kind of programme most family members like \_\_\_\_\_

Ans. Serials and News most of the family members like.

• The kind of programme most family members dislike.

Ans. Most of the family members dislike serials.

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

Ans. Liking and disliking of programmes by children

<i>Kinds of Programme</i>	<i>Number of Children Liking it</i>	<i>Number of Children Disliking it</i>
News	10	10
Serials	2	18
Cartoons	19	1
Music	18	2
Movie	17	3
Sports	20	0

- Which kind of programme is liked by most children?

Ans. Most of the children like Cartoon and Sports programme.

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

Ans. Cartoon and Sport are disliked by least children.

- How many children like sports programmes?

Ans. 20 (all) children like sports programmes.

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

Ans. No.

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?

Ans. To answer these questions, first of all make a table regarding this:

<i>Letter</i>	<i>Number of letters</i>	<i>Letter</i>	<i>Number of letters</i>
A	10	N	13
B	1	O	6
C	2	P	–
D	7	Q	–
E	20	R	6
F	2	S	10
G	2	T	10
H	15	U	4
I	14	V	1
J	–	W	7
K	2	X	–
L	2	Y	3
M	7	Z	–

(a) The word T has been used most in the poem.

(b) The letter 'E' has been used most.

(c) The letters 'B' and 'V' has been come least

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

(a) Which word comes most often? How many times?

(b) Which word comes least often?

(c) The letter used most often is \_\_\_\_\_

(d) The letter used least often is \_\_\_\_\_

Ans. This paragraph is considered.

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.

<i>Letter</i>	<i>Number of letters</i>	<i>Letter</i>	<i>Number of letters</i>
A	12	N	13
B	2	O	11
C	2	P	0
D	11	Q	1
E	26	R	7
F	1	S	11
G	3	T	14
H	16	U	7
I	11	V	1
J	0	W	4
K	0	X	0
L	13	Y	1
M	2	Z	0

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

(b) The word 'are', 'on' etc. comes least.

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

(d) The letter 'F', 'q', 'v' and 'y' are used only once.

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Food we Eat

1. Find out from your classmates and fill the table.

Ans. The table is given as follows:

<i>Main food</i>	<i>Number of persons</i>
<b>Rice</b>	<b>25</b>
<b>Wheat</b>	<b>24</b>
<b>Maize</b>	<b>2</b>
<b>Barley</b>	<b>3</b>
<b>Ragi</b>	<b>1</b>

Look at the table and tell:

(a) Most children eat food made from \_\_\_\_\_

Ans. Most children eat food made from rice.

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

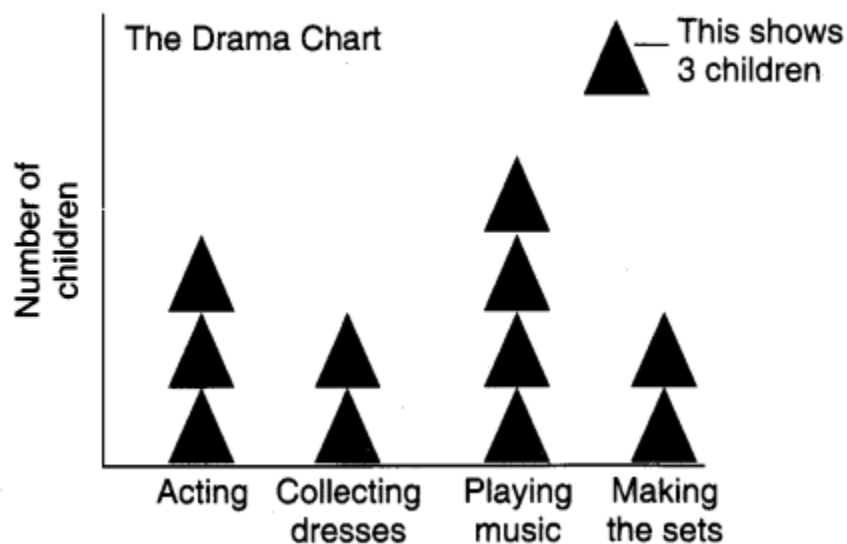
Ans. More children eat food made from rice than wheat.

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

Ans. The number of children who eat wheat are more than who eat food made of ragi.

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Preparing for the Class Drama



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

Ans. Nine children are acting in the drama.

2. (b) Which are more-children making the sets or those acting?

Ans. The number of children doing acting – 9

The number of children making the sets – 6 Hence, the numbers of children doing acting are more.

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

Ans. Playing music is done by most of the children.

4. (d) How many children are collecting dresses?

Ans. Six children are collecting dresses.

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Whose Head is Bigger?

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.

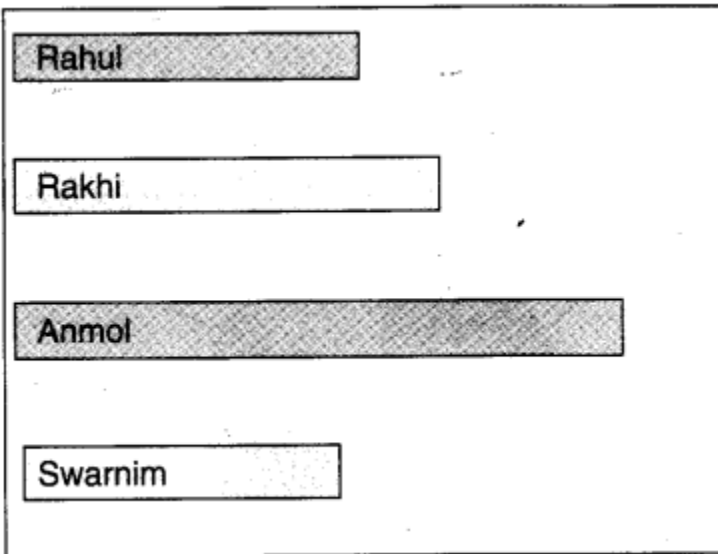
Use a scale and find out from your chart:

(a) The length of the longest strip is \_\_\_\_\_ cm

(b) So, \_\_\_\_\_ has the biggest head.

(c) The smallest strip is \_\_\_\_\_ cm long. It belongs to \_\_\_\_\_

Ans. The strips belongs to my friend's is head are pasted like as:



(a) The length of the longest strip is 55 cm.

(b) So, Anmol has the biggest head,

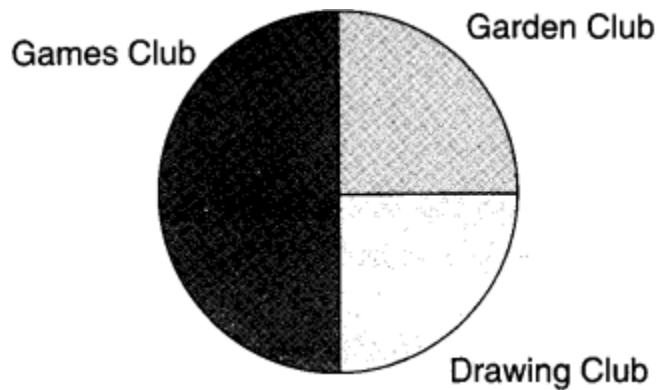
(c) The smallest strip is 32 cm. It belongs to Swarnim.

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Chapati Chart

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 of 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.

Ans. The Games Club has 100 members.

2. The Garden Club has \_\_\_\_\_ members.

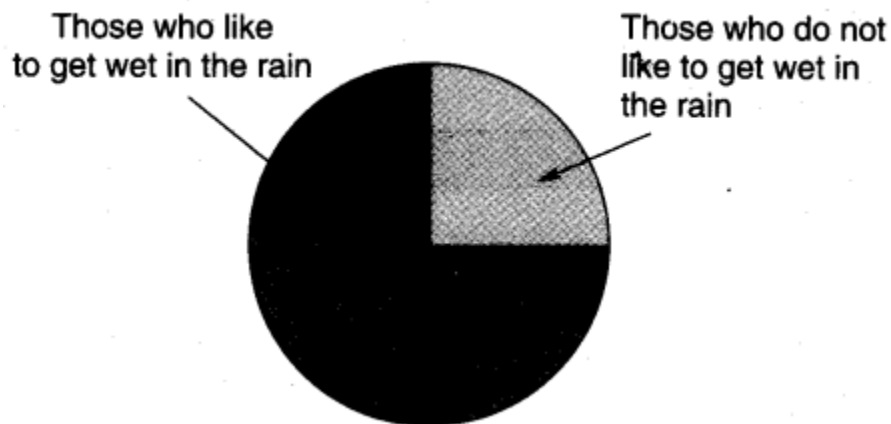
Ans. The Garden Club has 50 members.

3. There are \_\_\_\_\_ members in the Drawing Club.

Ans. There are 50 members in the Drawing Club.

### 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

Ans. (c) Three-fourth.

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

- (a) Half
- (b) One-fourth
- (c) Three-fourth

Ans. (b) One-fourth.

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?

Ans. 21.

- Who do not like to get wet in the rain?

Ans. 7.

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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

1. Total number of children

Ans. The total number of children = 40

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

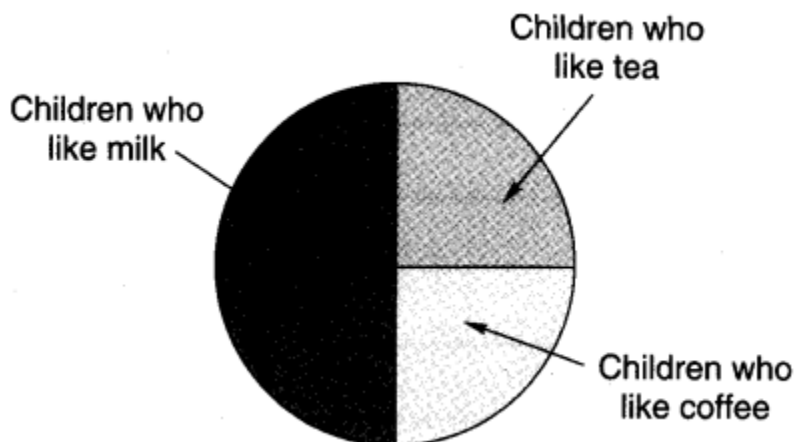
Ans. Children who like milk are  $\frac{1}{2}$  of the total children.

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

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

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

Ans. The Chapati Charts about the liking of children is shown here.



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# About NCERT

The National Council of Educational Research and Training is an autonomous organization of the Government of India which was established in 1961 as a literary, scientific, and charitable Society under the Societies Registration Act. The major objectives of NCERT and its constituent units are to: undertake, promote and coordinate research in areas related to school education; prepare and publish model textbooks, supplementary material, newsletters, journals and develop educational kits, multimedia digital materials, etc.

Organise pre-service and in-service training of teachers; develop and disseminate innovative educational techniques and practices; collaborate and network with state educational departments, universities, NGOs and other educational institutions; act as a clearing house for ideas and information in matters related to school education; and act as a nodal agency for achieving the goals of Universalisation of Elementary Education.

In addition to research, development, training, extension, publication and dissemination activities, NCERT is an implementation agency for bilateral cultural exchange programmes with other countries in the field of school education.

Its headquarters are located at Sri Aurobindo Marg in New Delhi. [Visit the Official NCERT website](#) to learn more.

# Chapterwise NCERT Solutions for Class 4 Maths :

- Chapter 1: Building with Bricks
- Chapter 2: Long and Short
- Chapter 3: A Trip to Bhopal
- Chapter 4: Tick-Tick-Tick
- Chapter 5: The Way The World Looks
- Chapter 6: The Junk Seller
- Chapter 7: Jugs and Mugs
- Chapter 8: Carts and Wheels
- Chapter 9: Halves and Quarters
- Chapter 10: Play with Patterns
- Chapter 11: Tables and Shares
- Chapter 12: How Heavy? How Light?
- Chapter 13: Fields and Fences
- Chapter 14: Smart Charts