

Team A says — pencil.

F Do you also think so?

Now you think of a different answer for Uncle Meeku's question.

Now it is the turn of team A to touch and guess. Everybody sings:

Tell us, tell us how it feels. We guess its name and win the game.

A child from team A puts his hand in the bag. Others in team A have to guess. Can you help them?

Round all around...
has no corners...
I can roll it in my hand.
Guess what it is?

The game 'Guess its Name' helps children observe and describe shapes of different objects. Discuss similarities and differences among their properties, physical features etc., such as edges, corners, faces, smooth or rough surfaces, if it rolls or slides. For example, a matchbox has sharp corners and it cannot roll while a plate is flat and can roll.



Then is the turn of team B to feel and guess. And so the game goes on ...

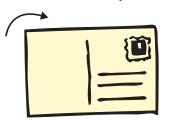
Now you play this game in teams. Put different things in a bag. A cloth is tied on one child's eyes. She puts her hand in the bag. She touches it and says what it feels like. Her team has to guess the name.

#### How Strong is a Postcard?

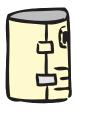
Hold a postcard from one corner. If you keep a book on it, can it hold the book?

Now try this.

1. Roll a postcard to make a pipe.



2. Use tape to stick the ends together.





3. Put a book on it. Does it hold it? See how many books it can hold.



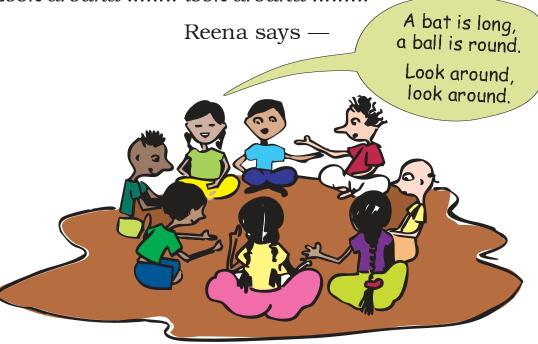
#### Hurry Up! Be Quick!

Children are sitting in a circle in the class.

They are playing this game, clapping and singing.

What is long ...... what is round? ......

Look around ...... look around .......



All children are singing ......

What is long ...... what is round? ......

Look around ...... look around .......

Meenu says —

A bottle is long, a cap is round. Look around, look around.



And the game goes on.

F Now you play this game in your class. Take turns to name two things — one long and one round. Do not repeat things which others have named.



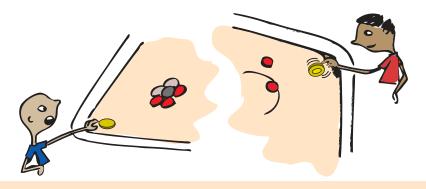
#### What Rolls, What Slides?

Look at the picture. Some children are rolling and some are sliding things in a park.



There are some things which can roll and some which can slide.

There are things which both roll and slide.



Start a discussion in the class on things in the child's environment which roll and slide. Help children to look at their shape and see how some things roll and others slide.





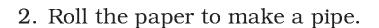
Look at things around you.

Write below:

Things which roll	Things which slide	Things which both roll and slide

#### My Tiny Tree

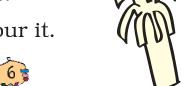
1. Take a sheet of paper like this.



3. Your paper pipe will look like this now. Use glue or tape to stick it.

4. Using scissors, cut strips at one end of the paper pipe. Make 7 or 8 cuts.

5. Turn down the cut ends.Your tree is ready! Colour it.







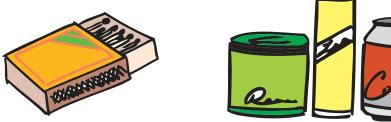
# 1016 101 0 101 6 101

#### The Tallest Tower



F Collect different things, such as boxes of different kinds, balls, erasers, matchboxes etc.

F Make your towers using different things, like only matchboxes, only tins.



Now mix and make with different things, like — shoe boxes and tins together, balls and matchboxes together.

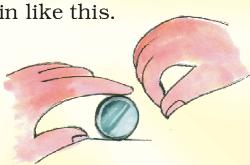
Start a discussion in the class about which shapes can be stacked one over another and which cannot be. Encourage children to look for surfaces which are flat or not flat. They can also get an intuitive feeling that shapes with broader bases are more stable and discuss how different things like soaps, tea boxes, tins, etc. are stacked in a shop. Children will enjoy playing games like 'pitthoo' (seven stones) in which they need to make stable stacks of irregular stones as fast as possible, while the other team runs for the ball.



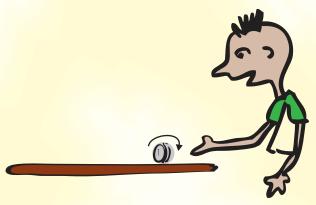
#### Coin Play

Try doing these with your coin.

h Hold the coin like this.



Make the coin spin. Does it look like a ball?



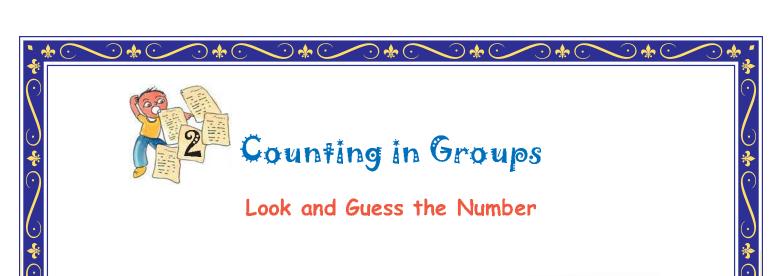
- h Does a coin roll? Does it slide? Try.
- h Can you make a 1-rupee coin stand like this?\_\_\_\_

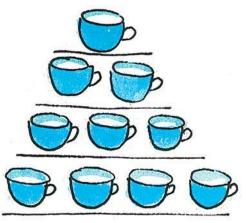


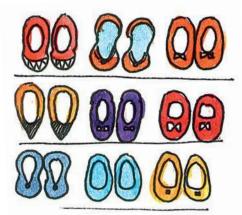
Try doing the same using a 2-rupee coin and a 5-rupee coin.











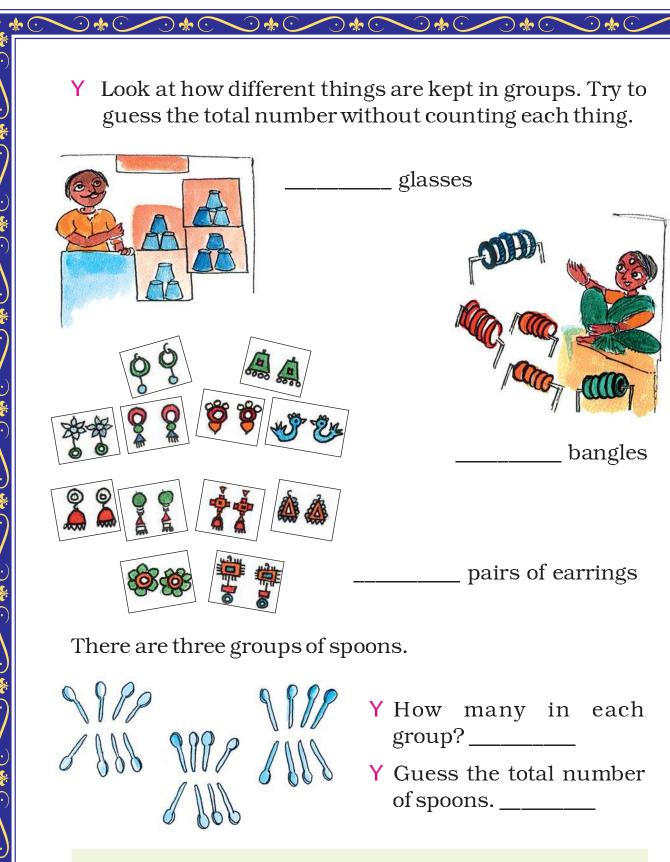
Can you guess how many cups?

Can you guess how many pairs of shoes?

3 and 3 is 6 cups and 4 cups below. That should be 10 cups.

There are 3 lines with 3 pairs of shoes in each line. That makes 9 pairs of shoes.





Ask children to guess the numbers of things around them. The idea here is to encourage them to look at the arrangement of objects and use the strategy of counting in groups.



### More or Less, Let Us Guess

Ring the correct answer:

Y Number of teeth in your mouth

More than 40 Less than 40

Y Number of seeds in an orange

More than 50
Less than 50



Y Number of matchsticks in a matchbox

More than 30
Less than 30

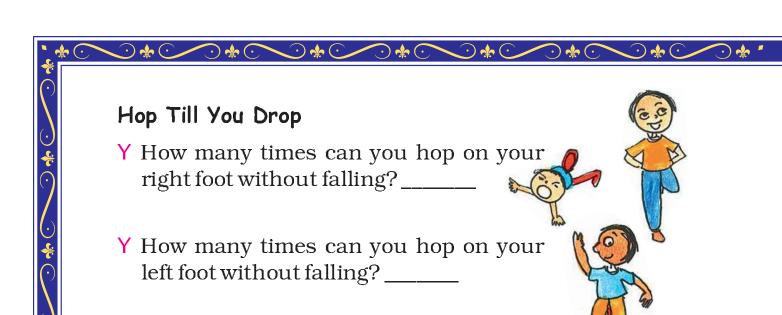
Y Number of pencils in **your** class

More than 45 Less than 45

Y Number of spokes in one cycle wheel

More than 20 Less than 20





#### Join the Dots

Jojo doggy is hungry. Join the dots in order, from 21 to 52, and find out what is hidden for him to eat.





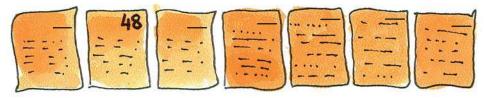




Bhurru has torn some pages of this book.



Write the page numbers in the correct order.



#### Puzzling Tail

Chipku rat has a long tail.

When he was sleeping, naughty cat thought of tying his tail to the poles.

She started from the pole with the biggest number. She moved on to the smaller numbers in order.

Help her in tying. But the tail should not cross itself anywhere.





#### The Big Carrot







The carrot grew big and sweet. It grew very very big!

He tried to pull out the carrot but it did not come out.

He quickly called his wife.

The old man pulled the carrot leaves and the old woman pulled him. But they could not pull it out.

The old woman called her granddaughter. The old man, the old woman and the granddaughter tried but could not pull the carrot out.





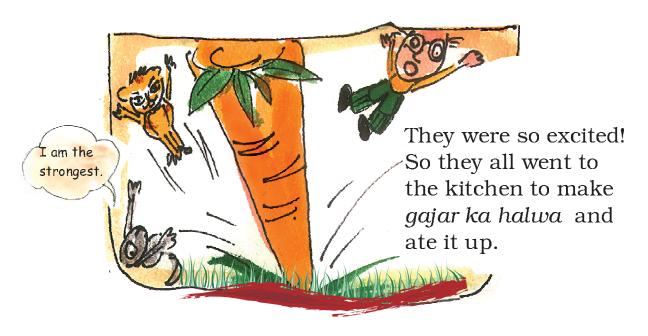
The granddaughter called the dog. The old man, his wife, the granddaughter and the dog could not pull the carrot out.

Then the dog called the cat. Everyone pulled and the cat held on to the dog's tail. The carrot did not move.

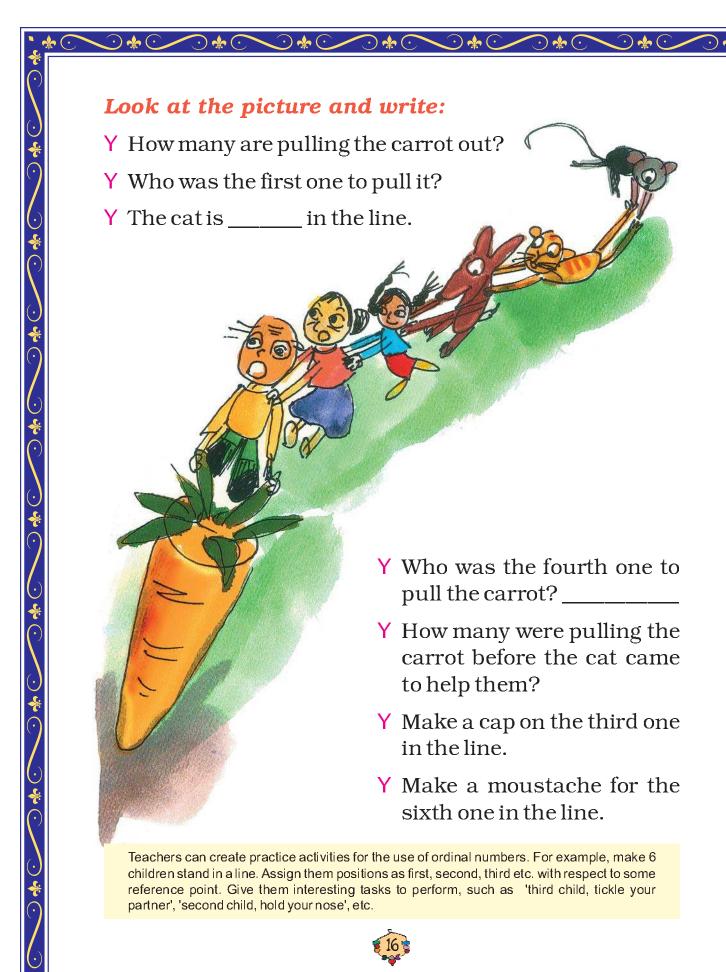
The cat called the mouse.



They all pulled hard together and the carrot came out. ZABOOM! They all fell down!









Seema has made a design with different bindis.



- Y Look at the groups and guess the total number of bindis.
- Y Draw more groups to complete 100 *bindis*. How many more *bindis* did you have to draw?





#### The Clever Donkey and His Heavy Sack

Sandesh has a donkey. It carries acks full of salt on its back.

On the way to the market they have to cross a seriver.

One day, while crossing the river, the donkey slipped and fell into the river.

When it got up, the sacks felt very light.

h Guess why the sacks felt lighter?

The donkey was very happy. This also gave it an idea.

Next day, while crossing the river, the clever donkey decided to take a dip.

Ha! Let me teach

it a lesson.

This time Sandesh understood the donkey's trick.

Next day Sandesh put sacks of woollen cloth in place of salt.

h Now, what would happen to the dipped into the river? Why?

As reading skills are not yet fully developed in young children, pictographs serve as visual aids. Children also enjoy pictographs.



#### Raju Wants to Ride a See-saw

Raju needs a friend to ride a see-saw.



Rani comes to help Raju.

But still Raju cannot ride it.



Raju is heavier/lighter than Rani.

Aslam comes to help them.

Look at the picture.

h Can you tell why the see-saw turned this way?

Raju is heavier/lighter than Rani and Aslam together.



I have an idea!

Let me keep my bag

with me.

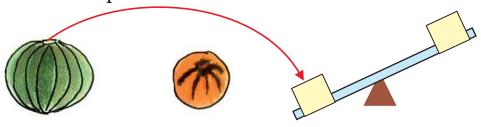
We are all enjoying the ride.



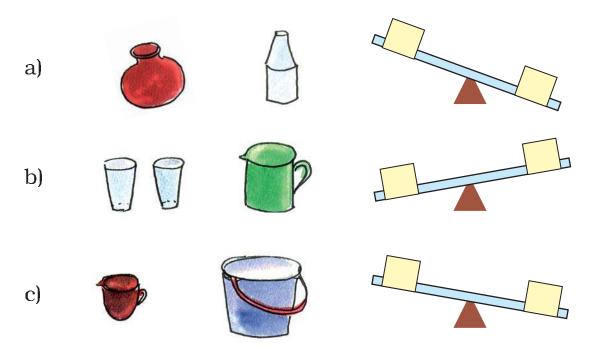


#### Heavier or Lighter

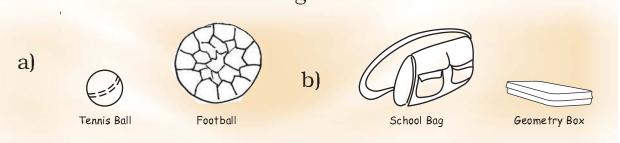
Which of the two things will make the see-saw go down? Look at the example.



h Draw a line to match the heavier one.



h Colour the one which is lighter.



Before doing this activity, let children compare weights of different things by holding them in their hands.





#### Chhotu Monkey and the Carrots

Chikky and Micky rabbits saw a bag. It had carrots in it.

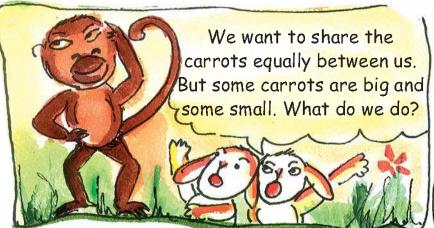




Chikky and Micky started fighting.



Chhotu monkey came to help them.



Chhotu monkey brought something to help them.



h Guess and tell what Chhotu monkey used to help Chikky and Micky. Draw a picture of it in the monkey's hand.

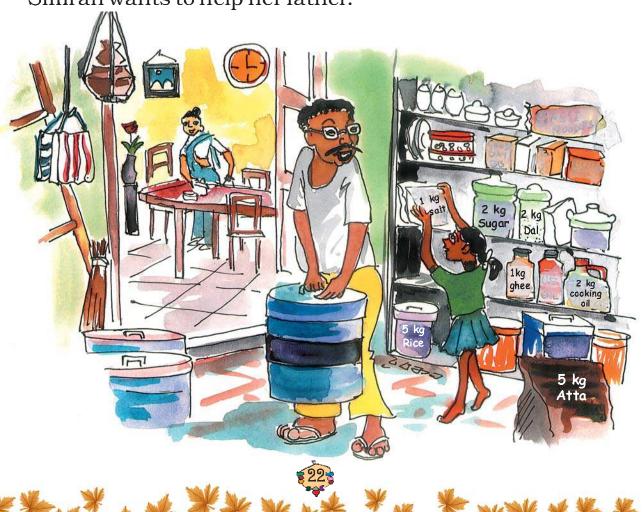
#### Find Out

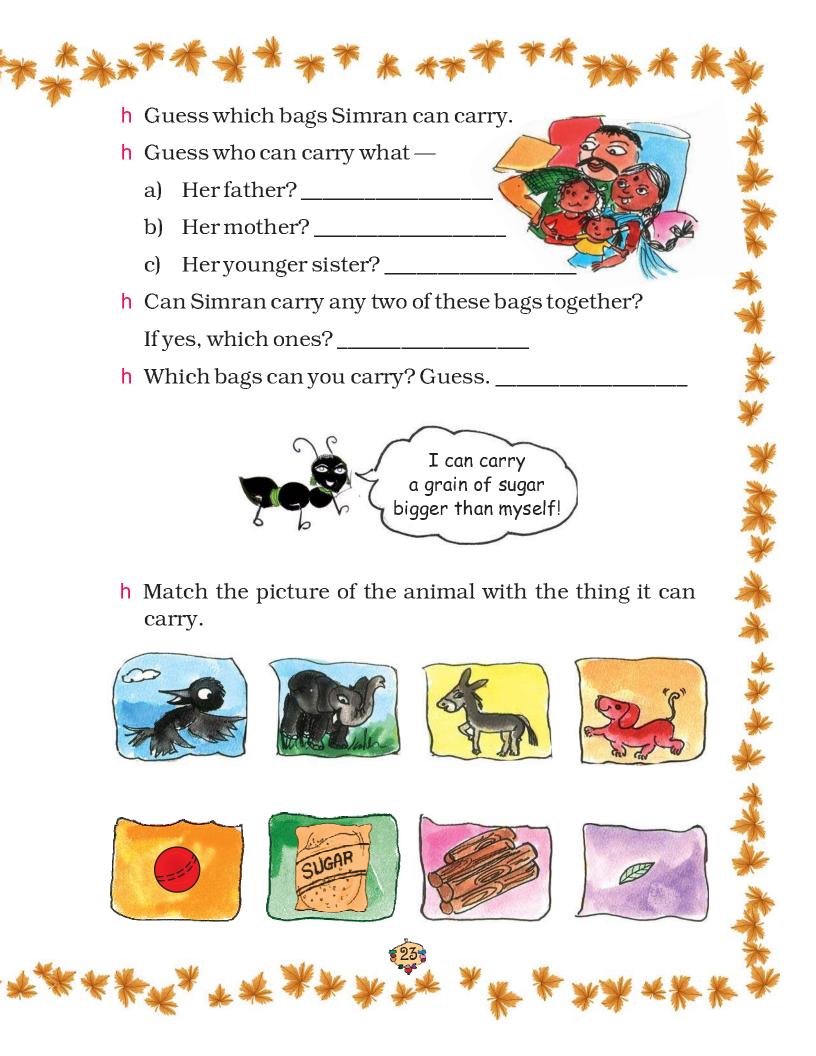
- h Your parents buy carrots for the family. How much do they buy at one time?
- h How does the vegetable seller weigh the carrots?

#### How Much Can Simran Carry?

Simran's father needs to move some things from the store of their house to the kitchen.

Simran wants to help her father.









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000 000 000

## Counting in Tens

#### Chickens and the Clever Fox



Tikloo farmer has many chickens in her farm. One day a clever fox saw these naughty chickens playing around.

From that day, she started stealing and eating chickens every day.

Tikloo came to know about it.

She asked the fox.

Hey, do you eat my chickens?

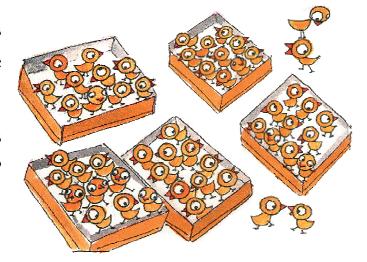
No dear, I am your friend, how can I eat your chickens?

Tikloo thought of counting her chickens every morning and evening. But the chickens kept moving around here and there. She said — I will put 10 chickens in one basket and count them. And if I find any of them missing ....... I will give the fox a tight slap.



In the morning, she counted her chickens.

- D How many baskets of 10 chickens are there?———
- D How many chickens are there in all? 50+4 =



**6660** 

In the evening, she counted the chickens again.

- D There are \_\_\_\_\_ baskets of 10 chickens.
- D There are  $\_\_$  + 3 =  $\_$  chickens in all.
- $D = 54 \underline{\hspace{1cm}}$  =  $\underline{\hspace{1cm}}$  chickens have been eaten by the fox.





#### How Many are These?

Bhanu collects sticks from the jungle.

He sells them in the market.



He uses 10 sticks to make 1 bundle.

3 bundles have sticks.

D Now, how many sticks in all are these?

sticks in all.

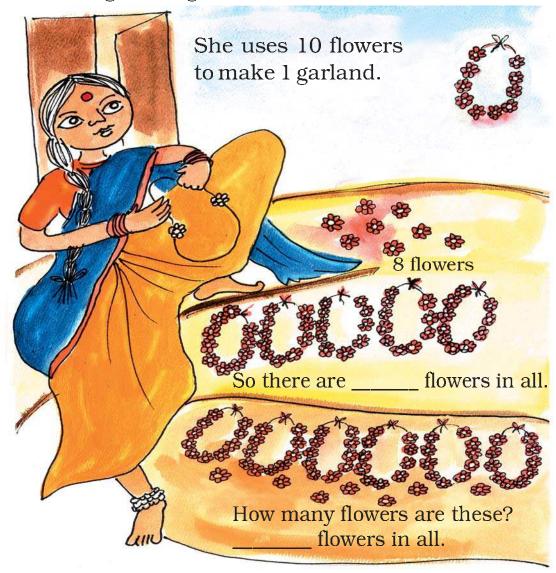
4 bundles would have \_\_\_\_\_ sticks.

Before doing these exercises, ask children to represent numbers by making bundles of 10 with the help of materials such as sticks or beads. Help them link these concrete objects to written symbols and oral names of the numbers.





There is a wedding in Malti's house. She is making flower garlands.



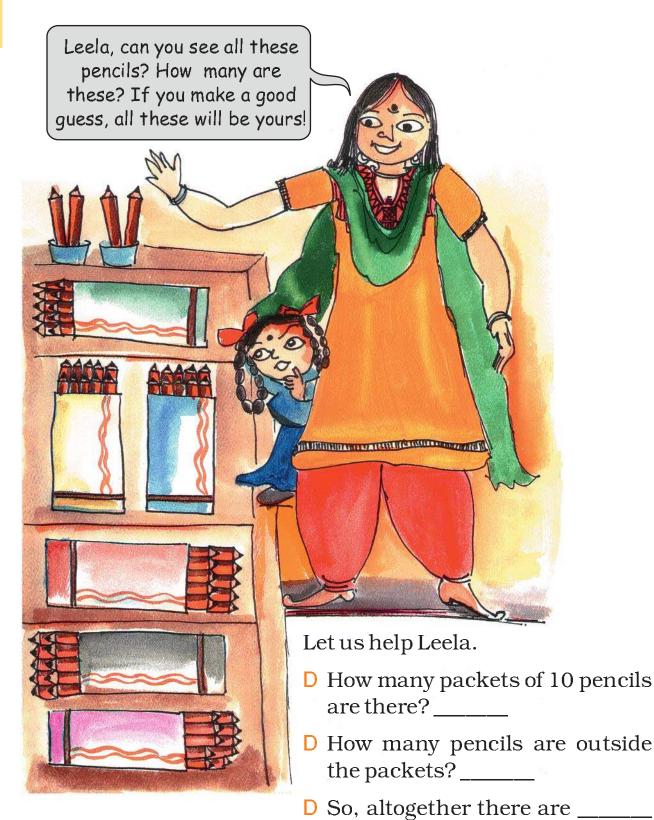
D How many garlands of 10 flowers each can you make using 21 flowers? Draw them in the space below.





**6660** 





-333 -333

-333

-333 -333

-333



pencils.



Kanak likes collecting different kinds of bindis.

D How many packets does she have?\_\_\_\_\_

0000

000

00 000 000

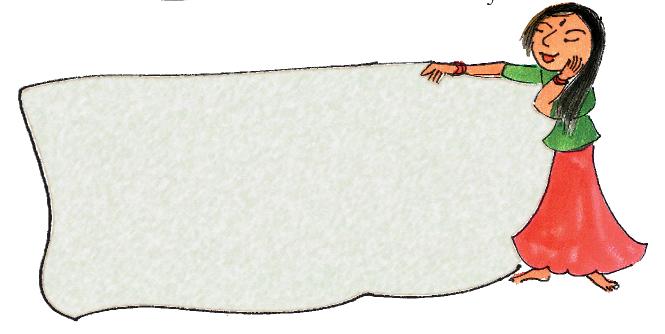
**6680** 

D So how many bindis in all?



Each packet has 3 + 4 + 3 bindis.

Now you draw 10 *bindis* in a different way.



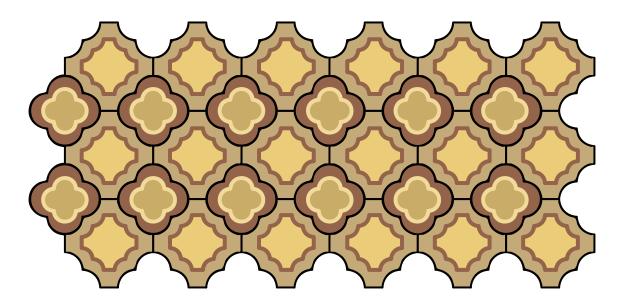
Discuss the strategy used by children for guessing. Encourage them to count in 10s. Also make children notice that 10 *bindis* can be arranged in different patterns. You may ask children to try different arrangements using 10 *bindis* which are visually easy to count.



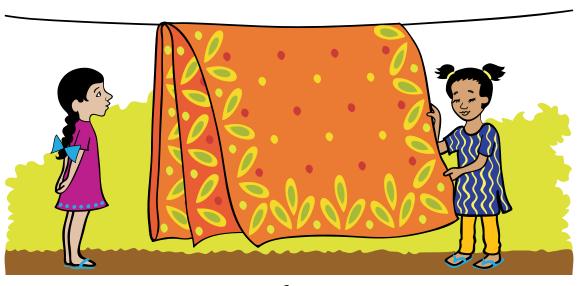




Binni and Ginni were going home. On the way, they saw some people making the pavement. The tiles used were of different colours and designs. This is what they saw.

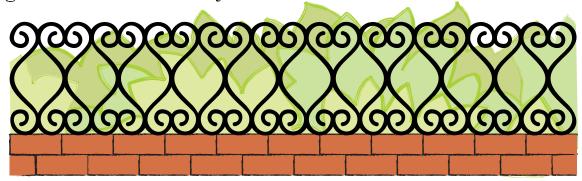


On reaching home they saw their mother's sari hanging on a rope. It also had a nice design with different colours.

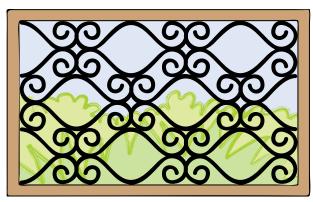




In the evening, they were playing in a park. They saw iron grills on the boundary wall.



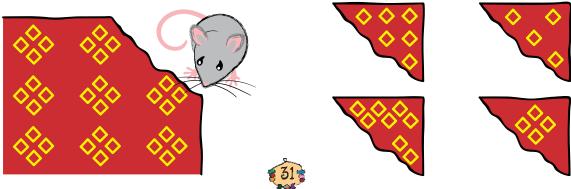
Looking at the grills, Binni said — these same grills make a different pattern in our windows at home.



We see many such patterns around us – on tiles, clothes, durries.

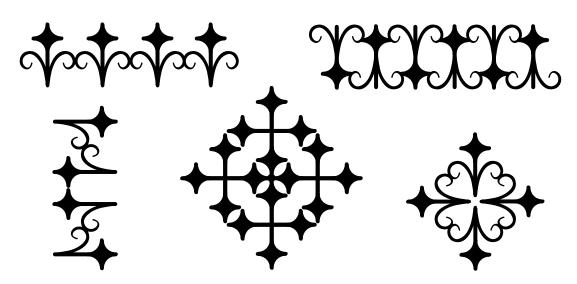
Bholu has eaten a part of the shawl of Binni's mother.

Look at the picture and help Binni in matching which piece is of the same pattern.

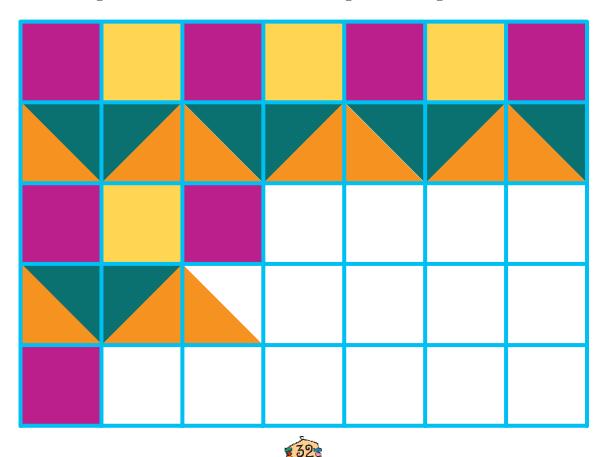


Madhav wants to make a pattern on a gate using .

Can you guess which of these cannot be formed with this?

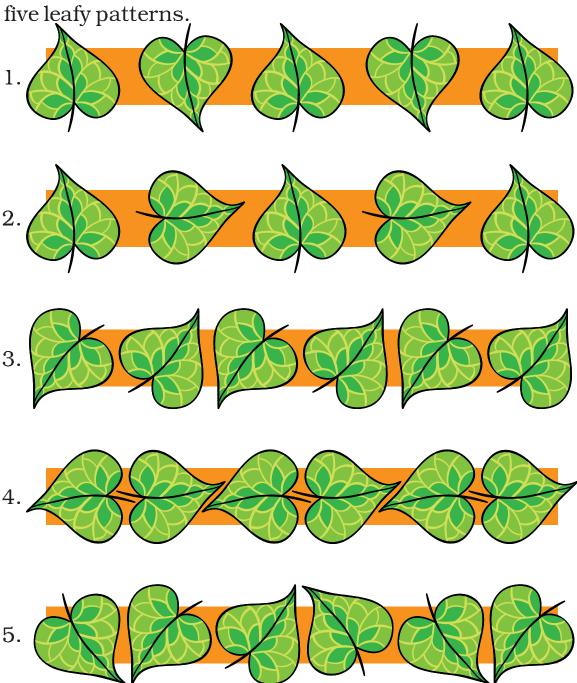


Fill up the blank boxes to complete the pattern.



#### Leafy Patterns

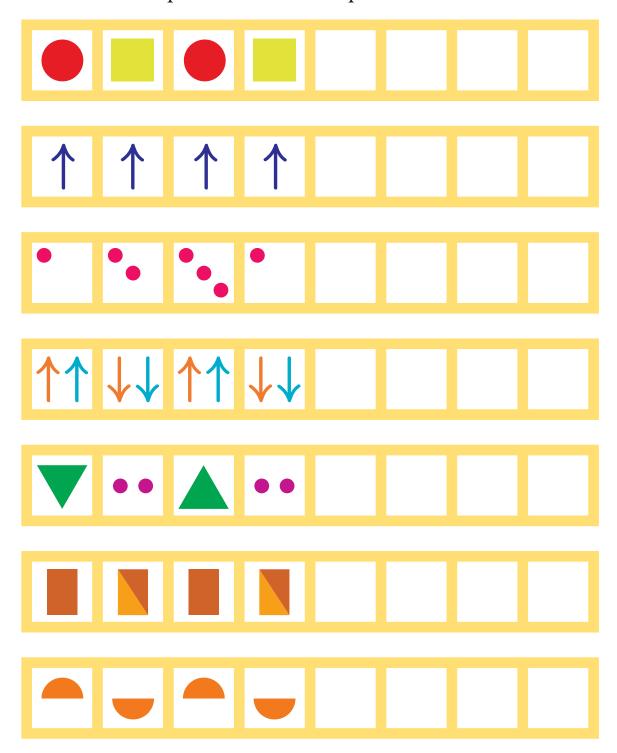
Using one leaf, we can make different patterns. See these



Now you also make some patterns with  $\uparrow$  arrows in your notebook.



Look at the patterns and fill up the boxes.

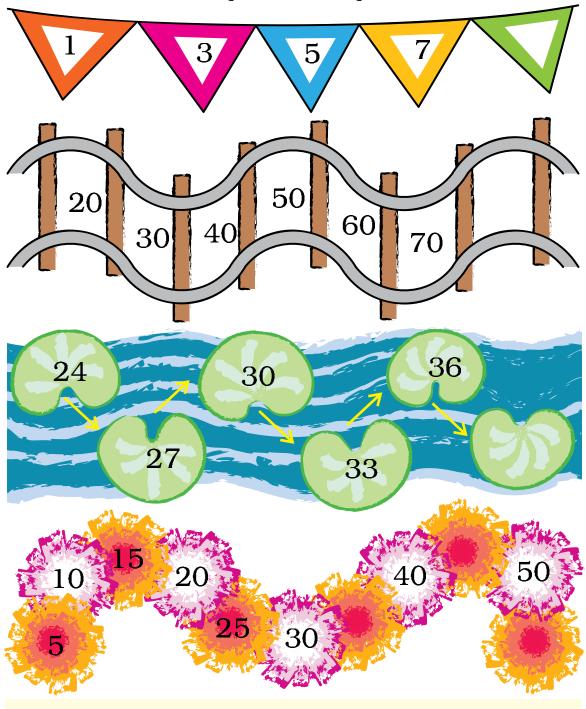


Now, you also make patterns using different shapes and show them to your friends.



#### Number Patterns

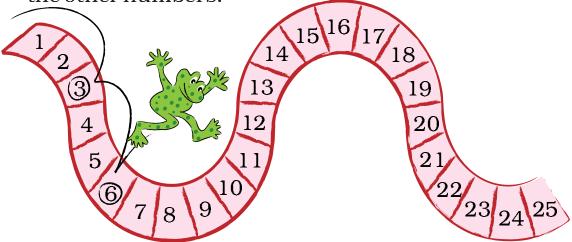
Let us look at some patterns with numbers. Fill the number in the blank space of each pattern.



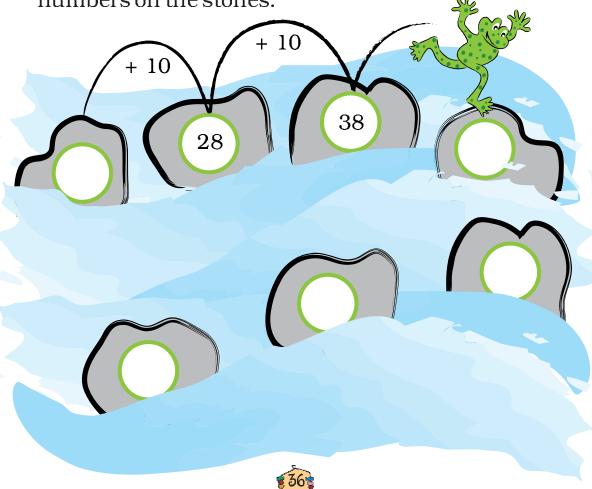
Encourage children to identify the patterns. Discuss with them various other possible number patterns.



Titu frog jumps over two numbers and reaches the third number. Where will Titu go next? Make a ring on the other numbers.



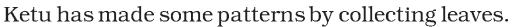
Titu jumps and gets on every 10th stone. Write the numbers on the stones.

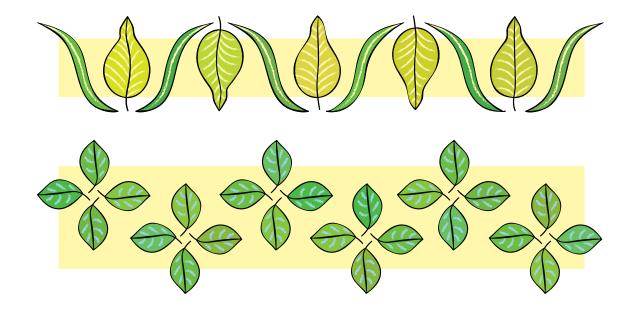


# Read and write what comes next:

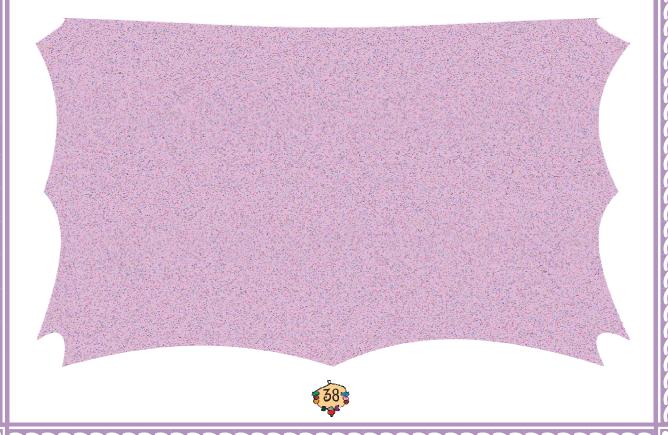
AA	ВВ	CC			
AB	CD	EF			
DAY	NIGHT	DAY			
1	2	1	2		
87	88	89			
20	30	40			
19	29	39			
2	5	8			
15	20	25			
18	21	24			
52	54	56			
5P	6Q	7R			
85	75	65			
55	50	45			
20	19	18			
40	38	36			

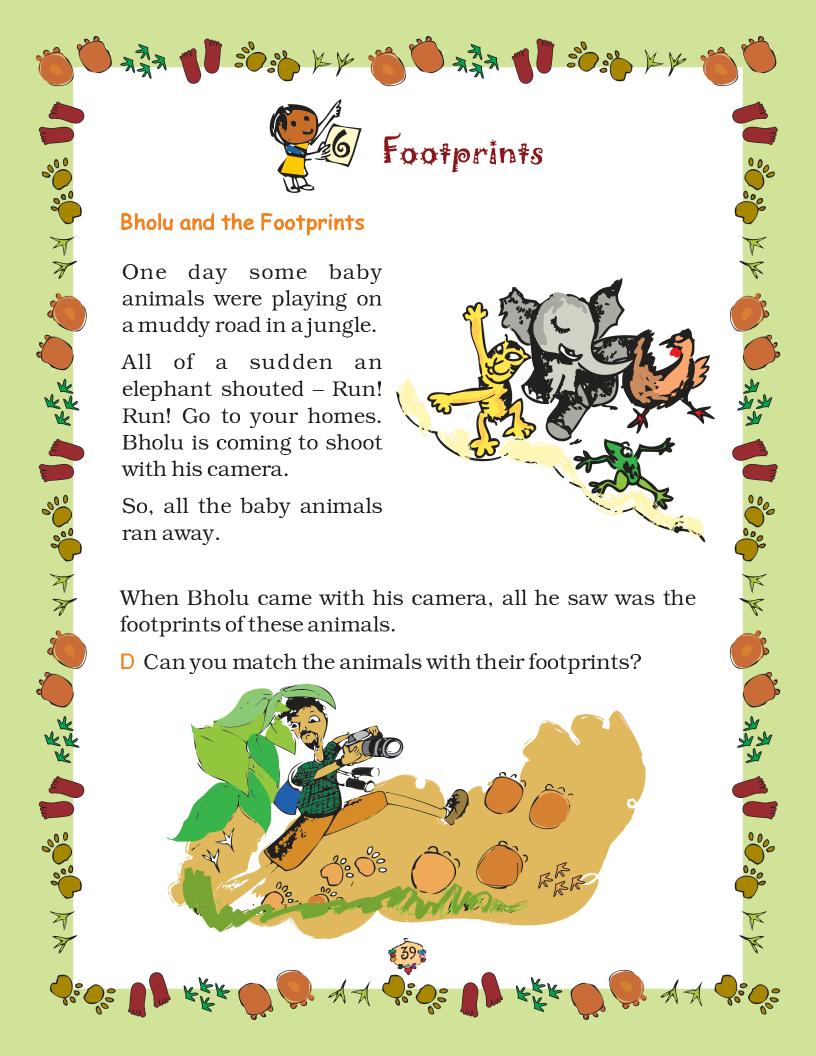






Now, you also collect some leaves and arrange them in different patterns. Also draw patterns using matchsticks.







D Draw the footprints of a dog in this box.

D Make the footprint of your friend on the floor. Is it smaller than yours?

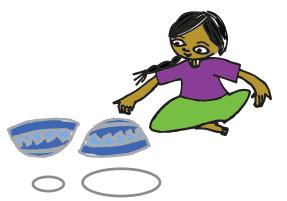
#### Trace and Guess

NA NA

AN COO O KAR

D Ron is tracing a leaf. You also collect a few things like leaves, pebbles, a stick, a bangle, *bindis*. Trace each thing here.





- D How did Roohi keep the bowl to get two different traces from it?
- D Look for other things like Roohi's bowl which can give many different traces.

### Do at Home

On a newspaper trace the hands of different people in your family. Ask your friends to guess which trace is of your hand, your mother's, your father's, etc.





#### Read and Draw

Tamanna and her mother are sitting on chairs.

Tamanna is reading a story book.

Her mother is reading a newspaper.

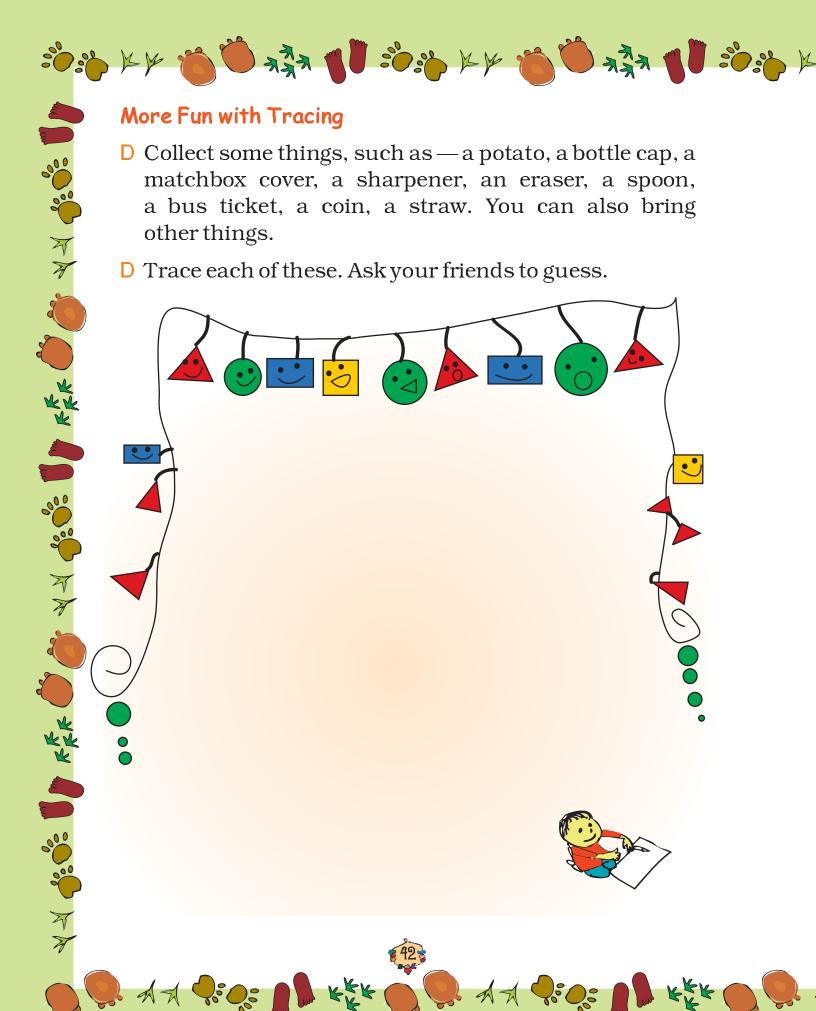
Tamanna and her mother are sitting on the opposite sides of a table.

Draw the missing things in the picture.



Children may use different perspectives to draw. For instance, some will try to show the table from the top but might show all its legs too, while some might make only two legs. Leave it to them to draw the shapes as they visualise them. Teachers could use different drawings to discuss about shapes and also how they look different from different sides.







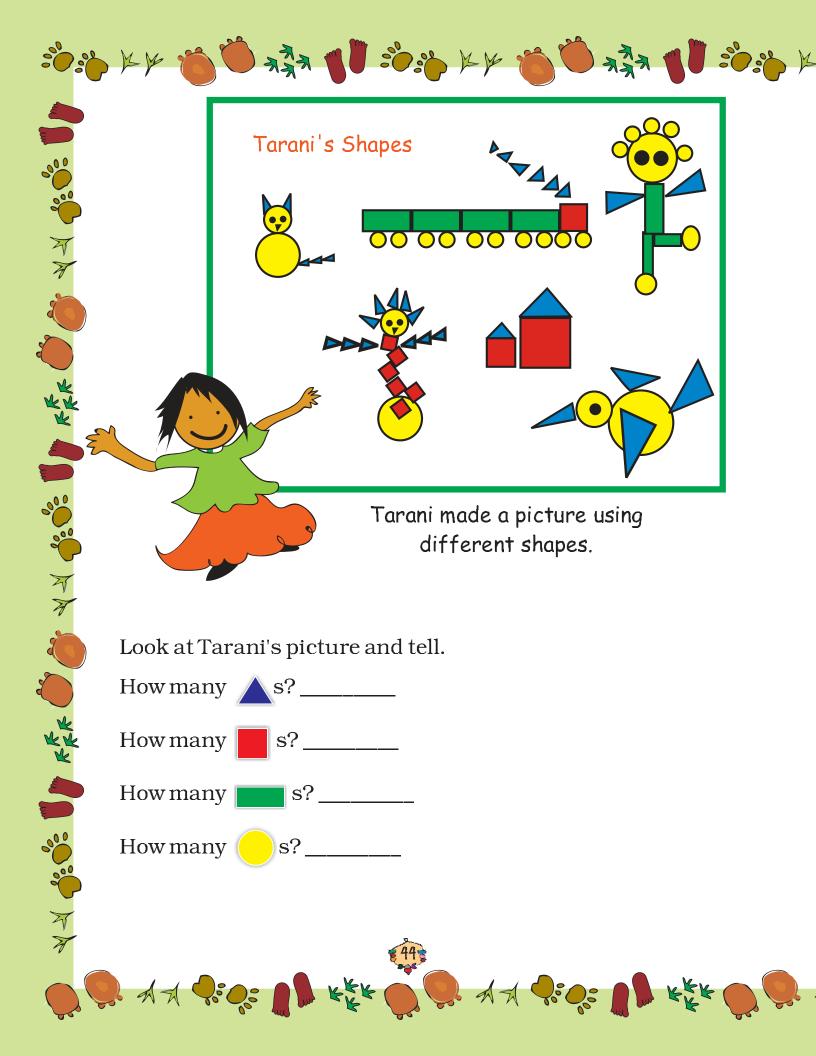
D Look at the shape of each trace you have made. See if it looks like any of the shapes given here. Write the name of the thing below the shape.

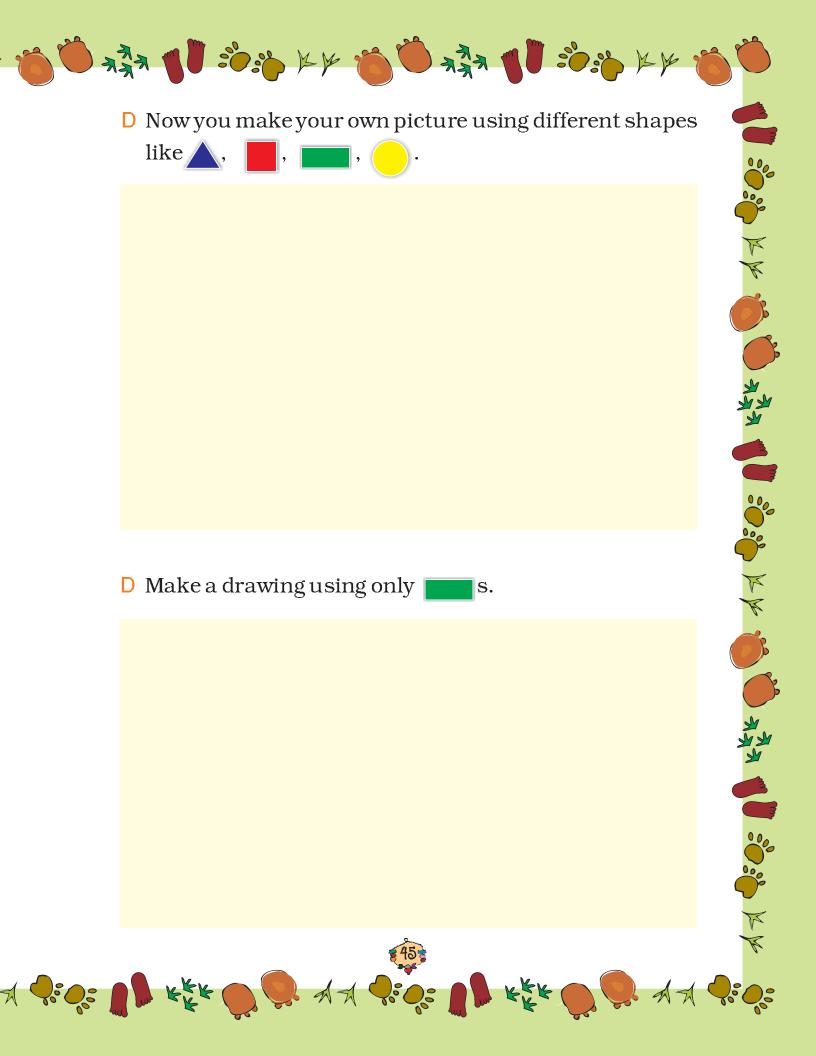
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		



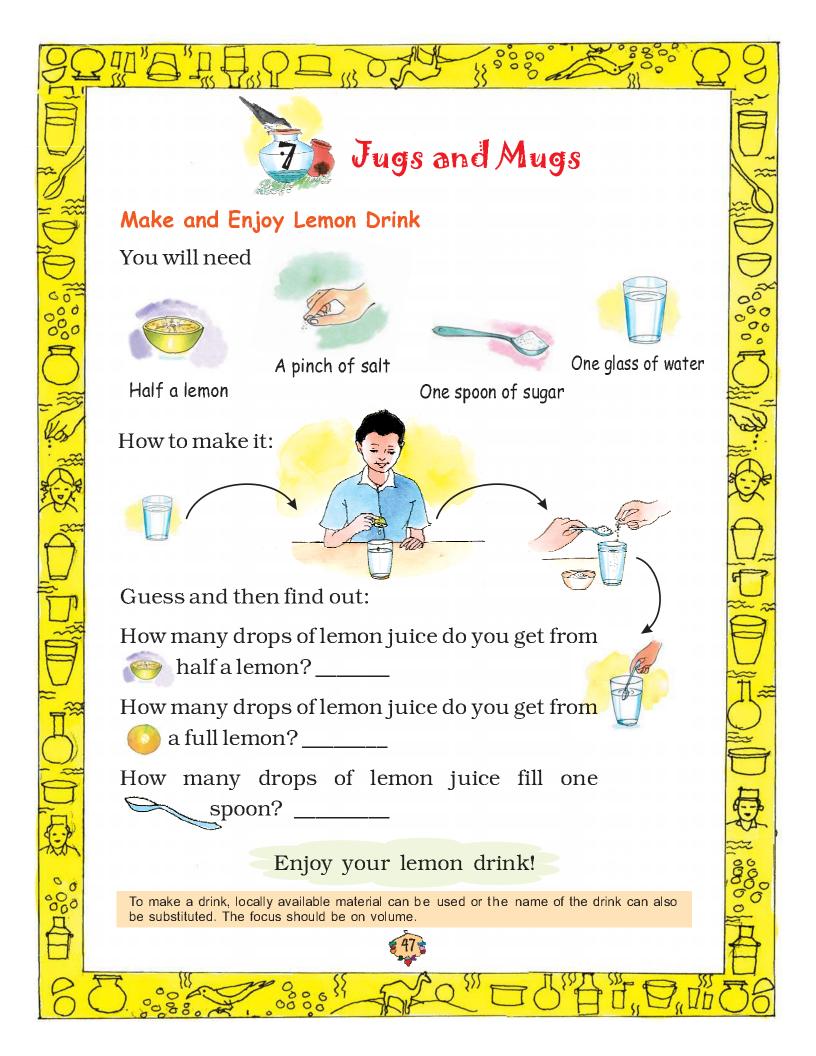
Help children look at the differences and similarities in the shapes which have come up after tracing. What is similar in the shapes — for instance, between a box and an eraser? These have been placed in the same column. Encourage children to name as many shapes as they can. We need to help the usage of words such as circle, square, rectangle, etc., so that these become a part of the child's vocabulary.











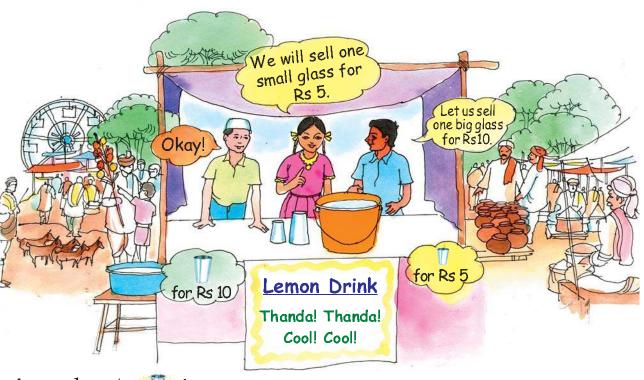


Lemon Drink Stall at a Village Fair

There is a fair in Chaitra's village. Chaitra, Nazim and Aneesh want to put up a stall to sell lemon drink. They make a bucket full of lemon drink.

They use two III different sizes of glasses.

How many spoons of sugar will you take?\_\_\_\_\_

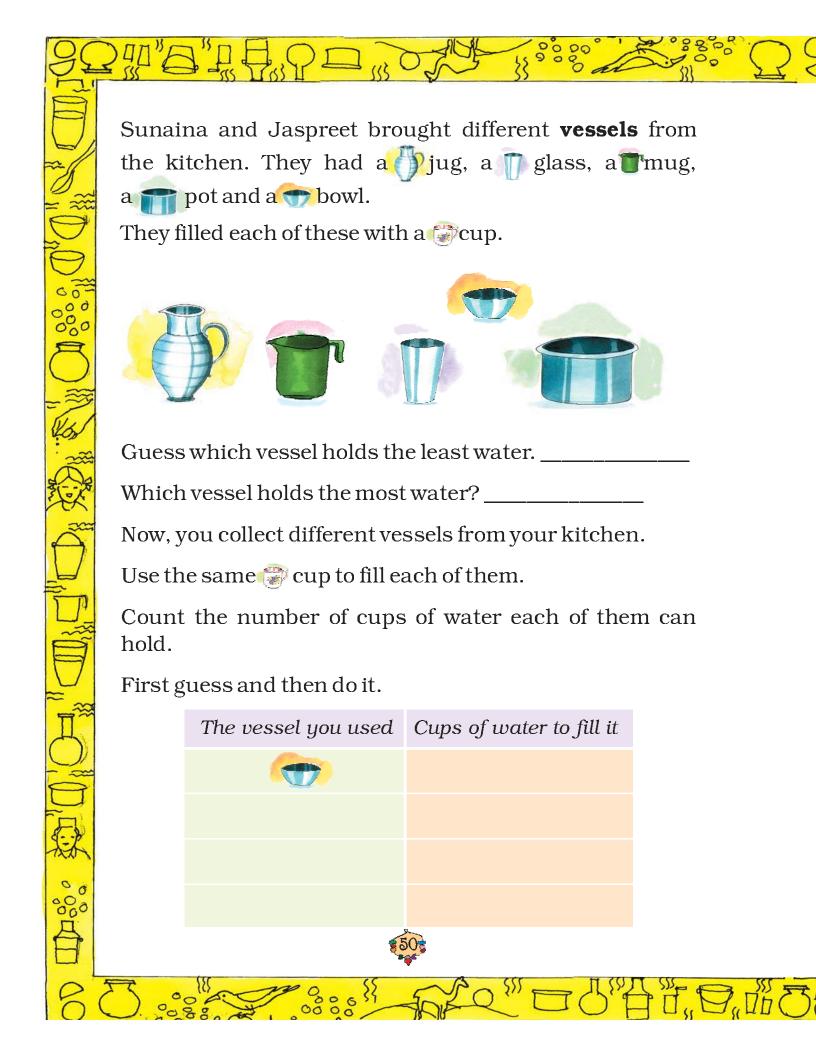


Aneesh got a jug.

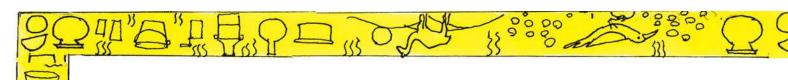
Do you think it is easier to pour into a figlass from a figure than a figure bucket?











#### Rani and the Milkman

Anil is a milkman. He gives the same amount of milk at Rani's house every day. He uses **\*\*** a mug three times to fill Rani's milk pot **\*\***.

One day Rani's mother gave her a different pot to take milk. Every day Rani's pot would fill to the top. But today Rani found that the pot was not filled



Do you think Anil has given Rani less milk? Help her.

#### Find out

How much milk does your mother buy every day?\_\_\_\_

### Try Yourself

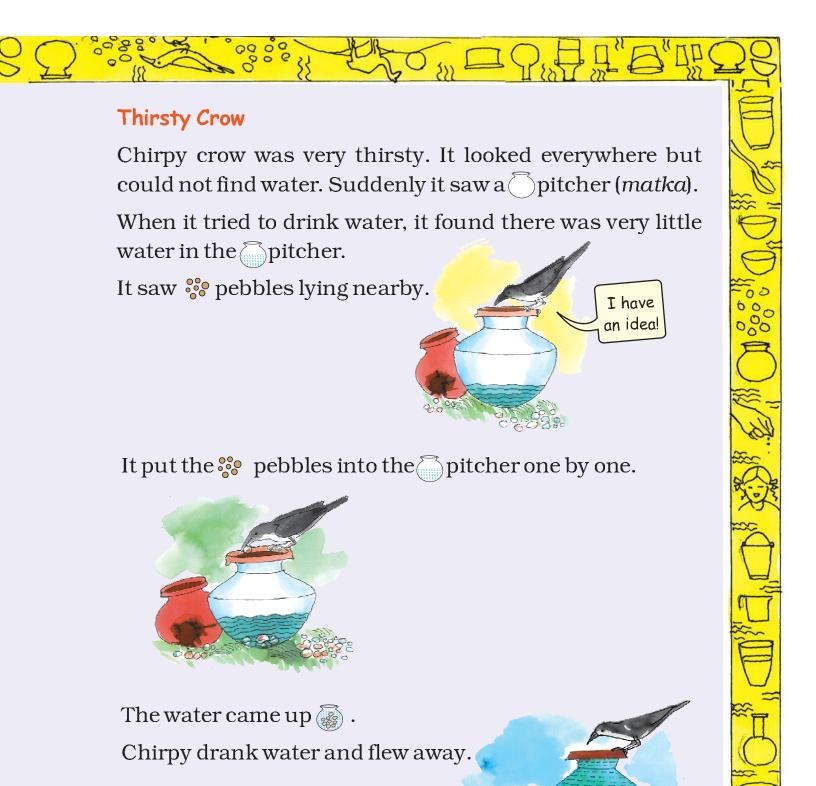
Take five different types of big vessels from your kitchen.

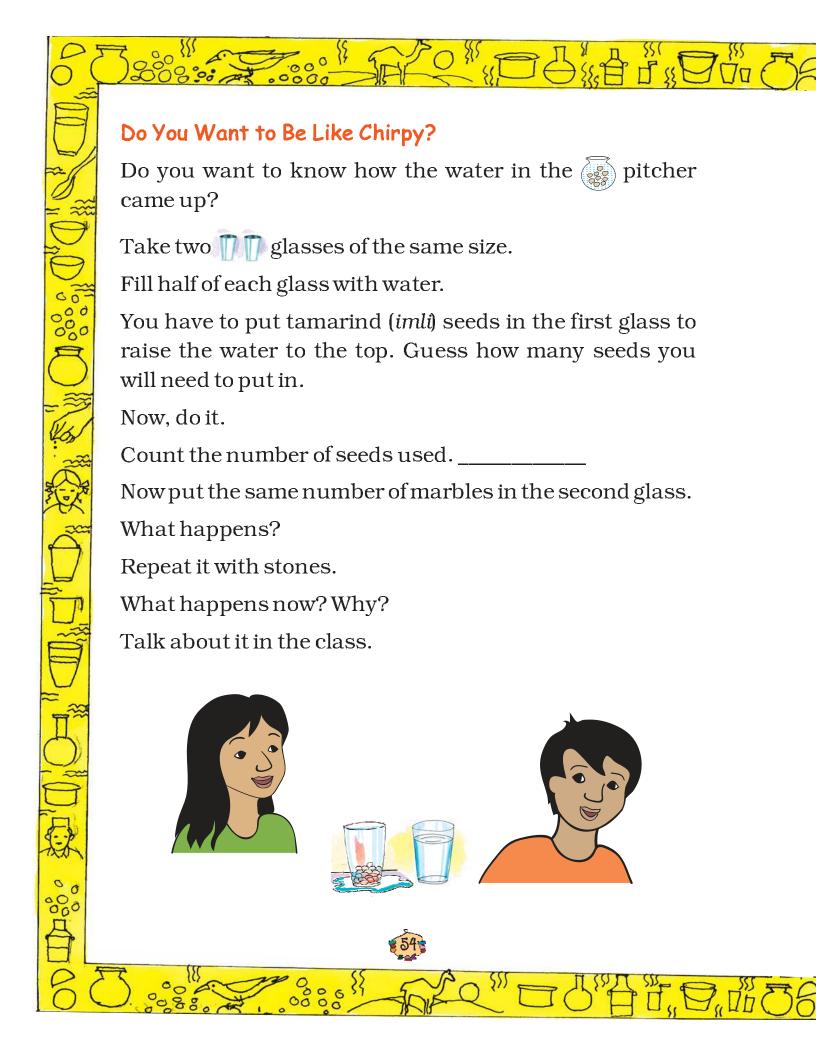
Fill all of them one by one with one jug full of water.

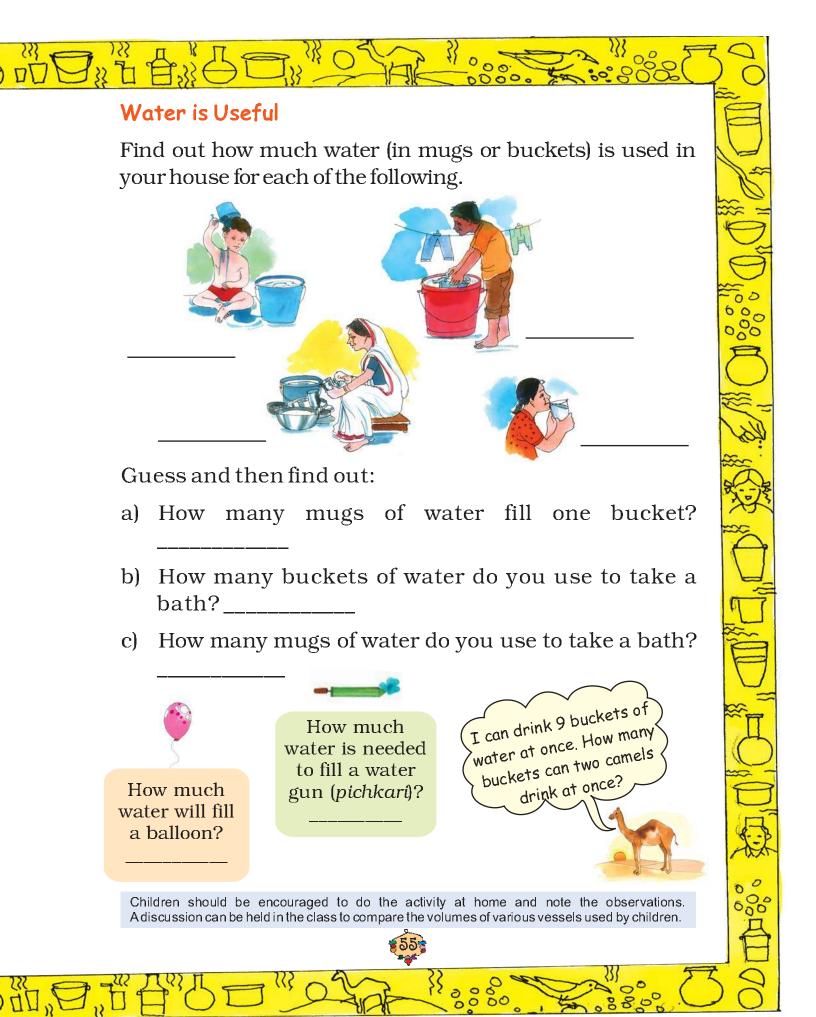
What do you see? Why?

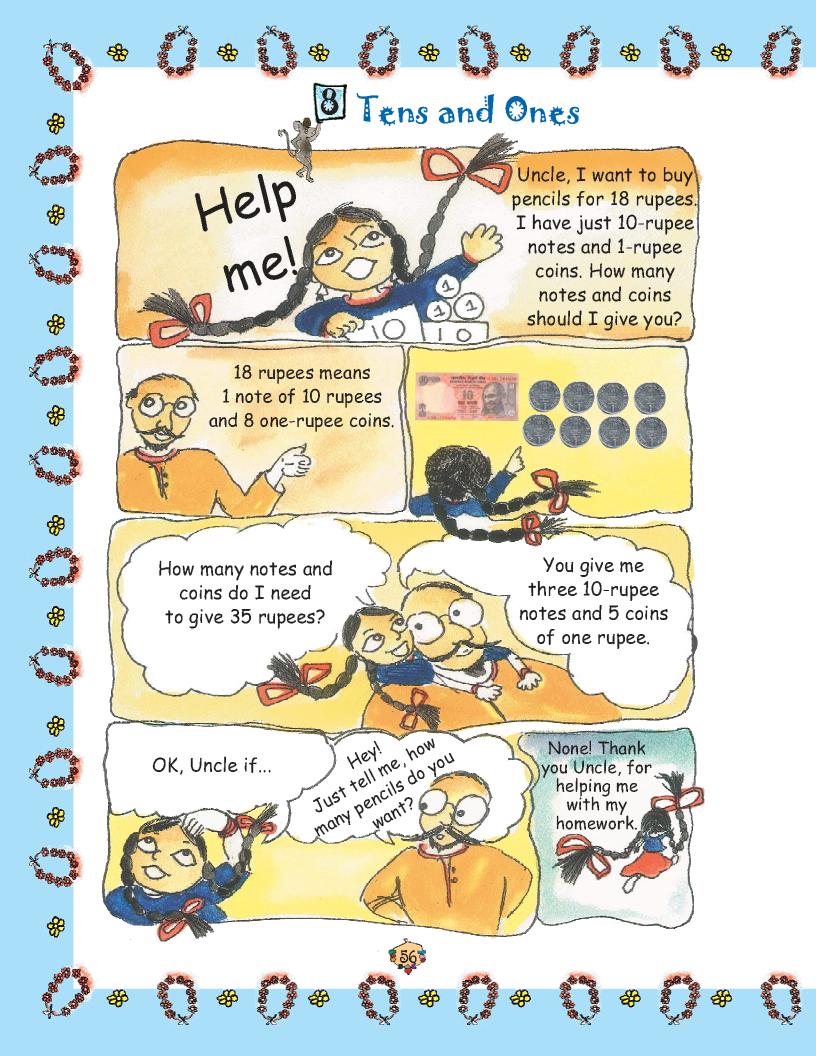
Talk to your friends about it.

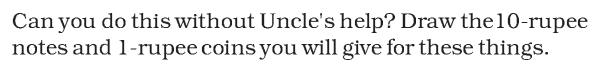












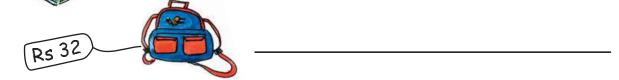


\*

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8

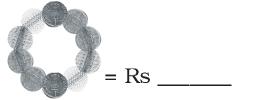
8





# J How much money do the notes and coins make?







Do similar exercises in the class with the help of play money.



### **Practice Time**

I will say a number. Guess the break-up.

OK, you say it, I will do it.



60 + 4



Twenty-five?



#

**P** 

\*

\*

\*

What about 12?
How will you
do that?

See, for 64 and 25 the number names tell us the break-up.

But uhm--- twelve is different.

So are eleven and nineteen.

Now you write these and also say them aloud.

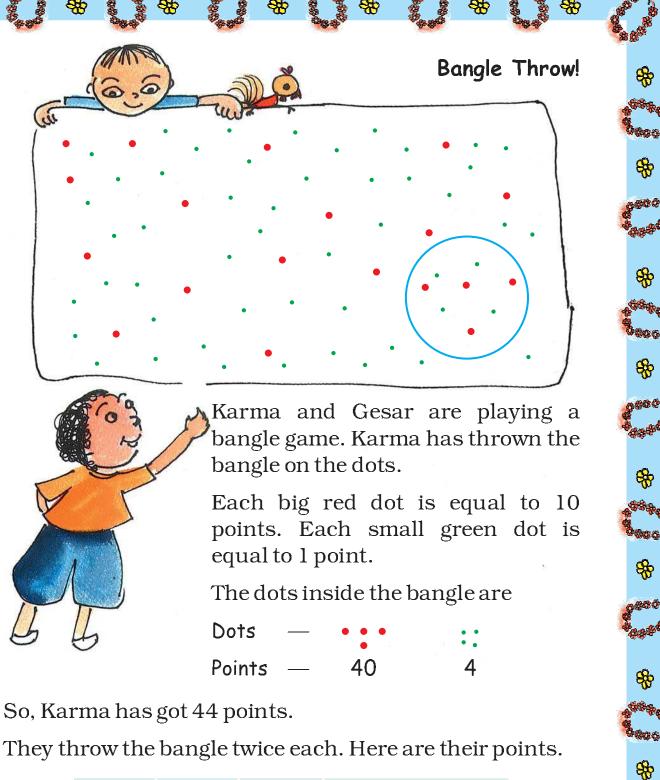
$$= 80 + 2$$

You try writing the break-up for these.

$$12 = 10 + 2$$

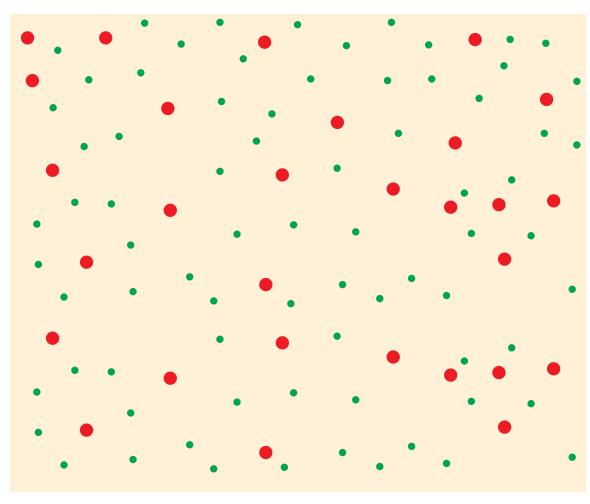
$$_{-}$$
= 10 + 7

Ask students if they also know counting in some other language. Discuss if the number names in that language also suggest the break-up.



Throw	Karma	Gesar	Winner
First	44	13	Karma
Second	16	32	Gesar



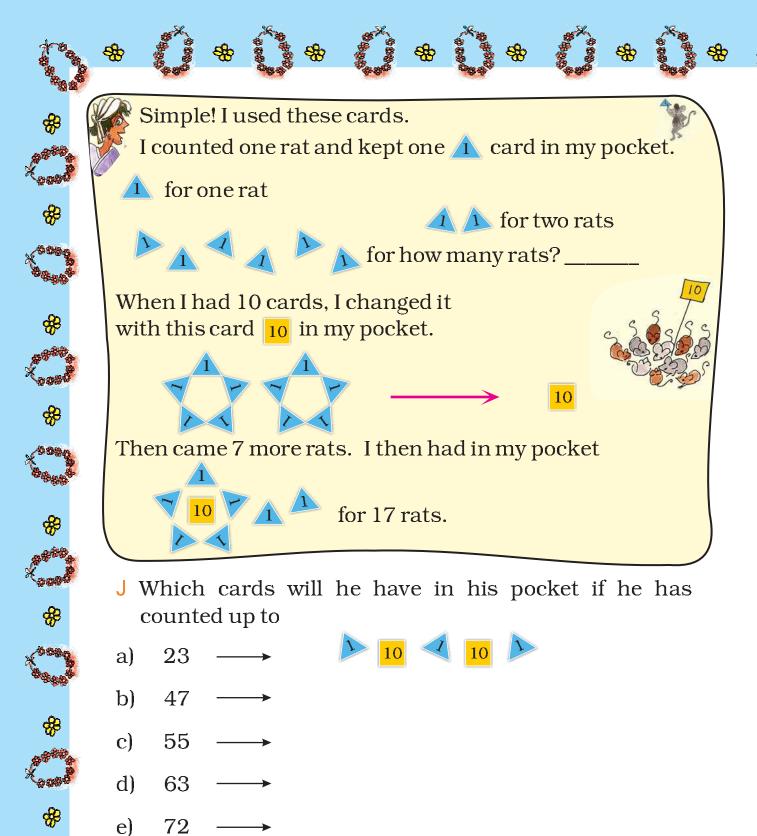


You can play this game with your friend using the board above. Write your points for each throw.

Throw	My points	My friend's points	Winner
First			
Second			
Third			
Fourth			
Fifth			
Sixth			

Encourage children to mentally compute the score.





 $Encourage\ children\ to\ make\ token\ cards\ and\ use\ them\ in\ different\ exercises.$ 

f)

80



\$

8

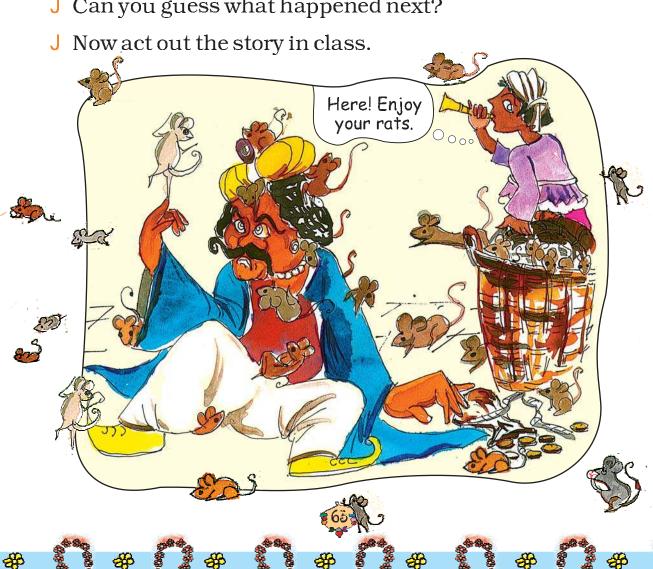
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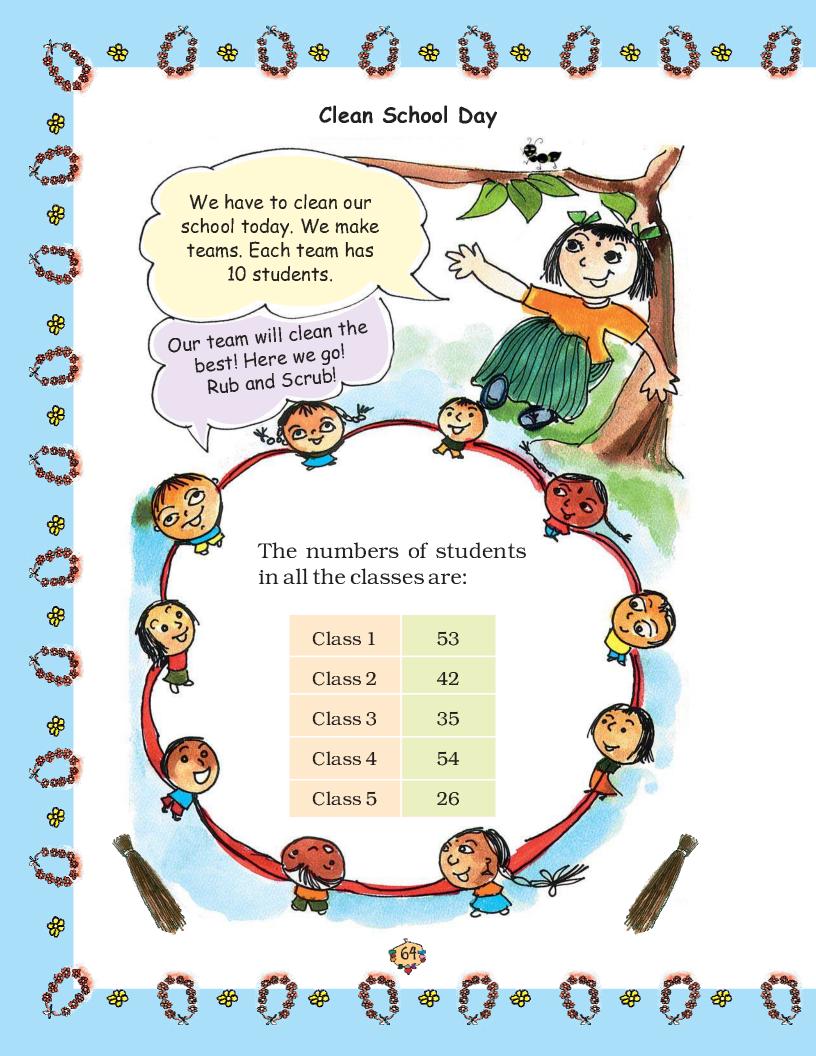
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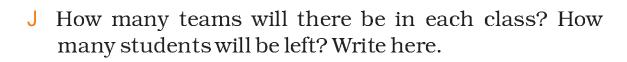
\$

8

J Can you guess what happened next?







	How many teams?	Students left
Class 1		
Class 2		
Class 3		
Class 4		
Class 5		

J	How many students are left in all?
	J

J How many more teams can be made with all these students left?\_\_\_\_\_

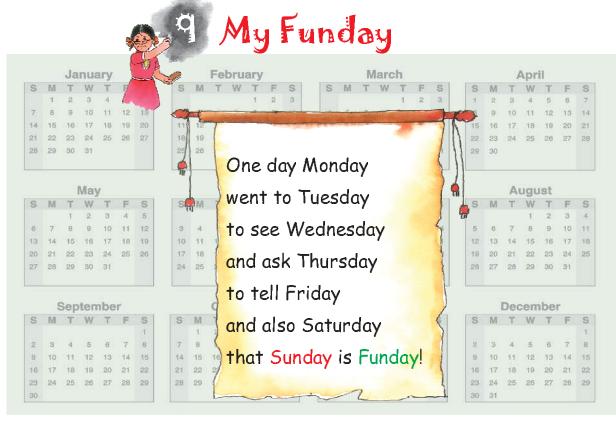
### Practice Time: Teams of Ten in Your School

J Find out the number of children in each class of your school.

8

\$

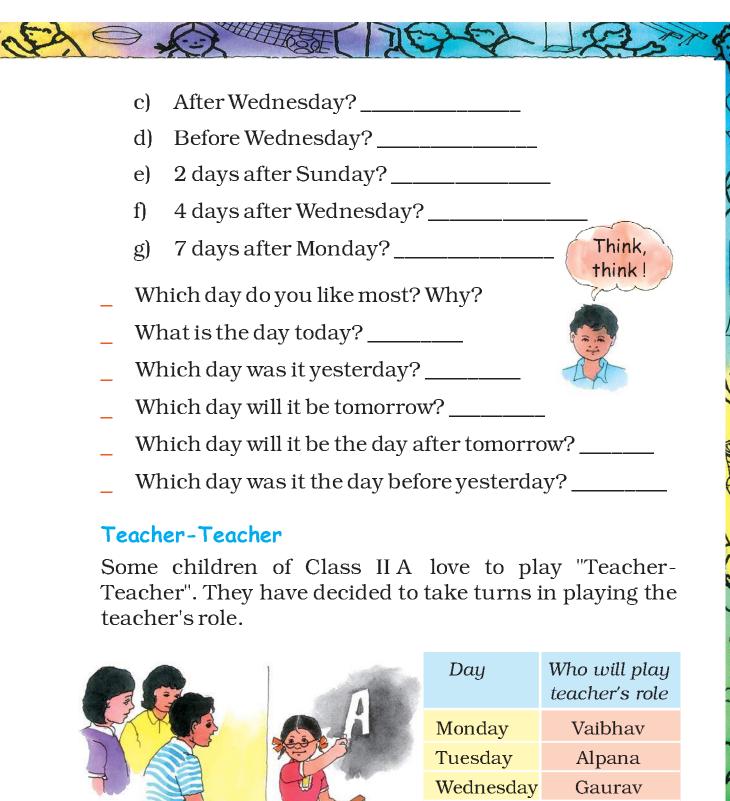
- J Make teams of ten for each class.
- J How many children are left in each class?



- Is Sunday a funday for you?
- Monday is happy to be the first day of the week. Now you tell
  - a) The third day of the week is \_\_\_\_\_\_.
  - b) The fifth day of the week is \_\_\_\_\_.
  - c) The second day of the week is \_\_\_\_\_.
  - d) The last day of the week is \_\_\_\_\_.
- \_ Which day will come
  - a) After Sunday?\_\_\_\_\_
  - b) Before Sunday? \_\_\_\_\_

While doing this chapter, the use of a calendar would be helpful. Encourage children to refer to a calendar to identify the order of days in sequence.





Duy	teacher's role
Monday	Vaibhav
Tuesday	Alpana
Wednesday	Gaurav
Thursday	Gurpreet
Friday	Deepak
Saturday	Rehnuma





\_\_\_\_ will be the teacher the day after Friday.

\_\_\_\_ will play the teacher's role on the day before b) Tuesday.

c) Gaurav will play the teacher's role on the day after

d) Deepak will play the teacher's role on the day before

# Games Every Day?

B	the state of the s		Time	Table of	II-A		38
	Period Day	1	2	3	4	5	6
31	Monday	Hindi	Maths	Games	English	E.V.S	Music
}	Tuesday	Hindi	Maths	Drawing	English	E.V.S.	Library
	Wednesday	Hindi	Maths	Games	English	E.V.S.	Library
4	Thursday	Hindi	Maths	Drawing	English	E.V.S.	Music
~3	Friday	Hindi	Maths	Games	English	E.V.S.	Music
	Saturday	Hindi	Maths	Drawing	English	E.V.S.	Library
	Saturday	Hindi	Maths	Drawing	English	E.V.S.	Library



# Look at the time table of Class II-A and fill in the table:

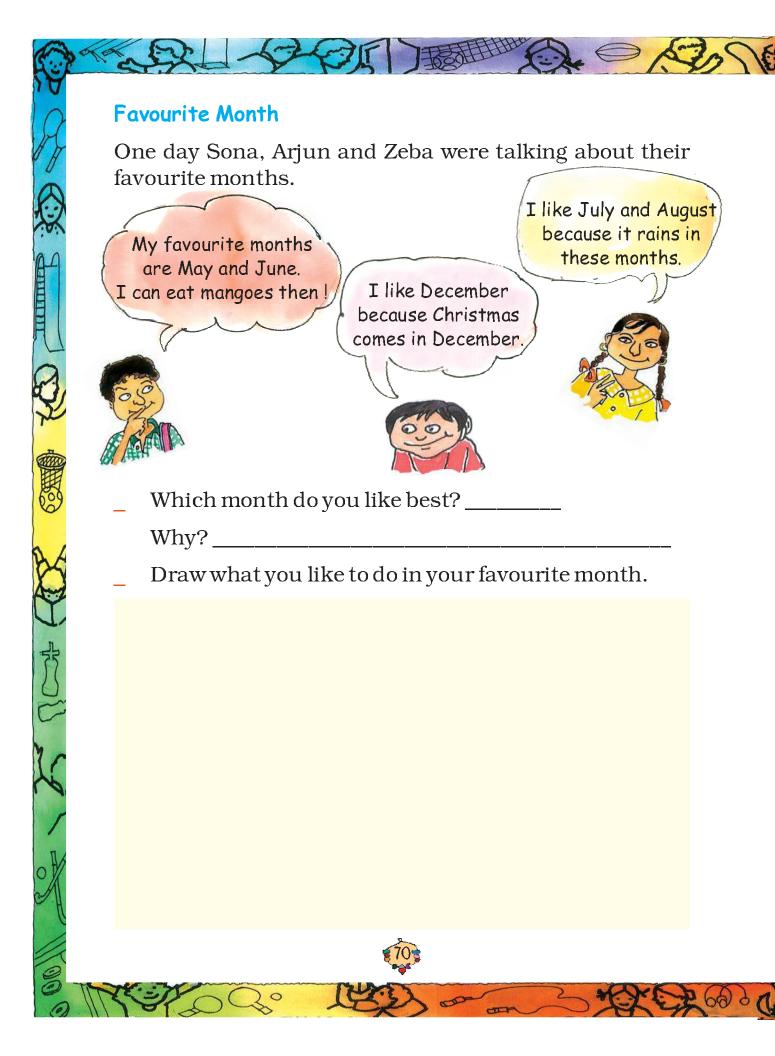
Period	On which days?
Drawing	
Music	
Games	
Library	

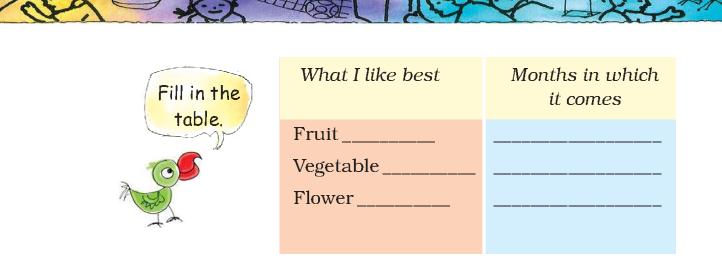
#### In Your Class

- a) On which days do you have a games period?
- b) How many children would like to have a games period every day?\_\_\_\_\_
- c) What games do you play in your games period?
- d) On which days do you have a drawing period?
- e) Do you have a music period?\_\_\_\_\_\_

  If yes, on which days?\_\_\_\_\_
- f) Which day of the week do you like best at school?





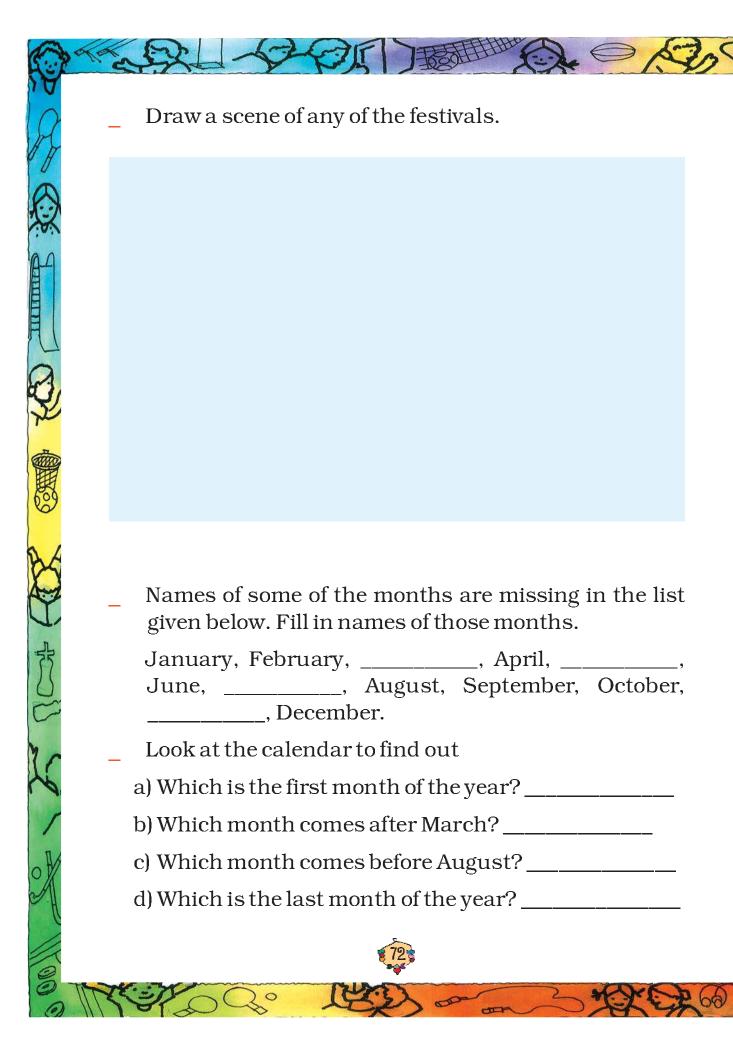


Write the names of five festivals that you or your friends celebrate. Also, write the months in which these festivals come.



Name of the festival	Month in which it comes





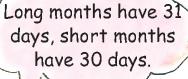
# February is Different

4 months have thirty days

7 months have thirty-one

February is the shortest month

In some years it jumps for fun.





Look at a calendar to find out:

F Which months have 30 days?

\_\_\_\_\_

F How many months have 31 days?

F How many days are there in February? \_\_\_\_\_

F How many days together are there in May and June?

F How many Sundays are there in July? \_\_\_\_\_

F What is the day on your birthday? \_\_\_\_\_

#### Find Out

How many days do you get for your summer holidays?

\_\_\_\_\_

How many winter holidays do you have? \_\_\_\_\_

The picture shows a popular way to remember long and short months. Starting with January, the long months sit on the knuckles, while short months are in the spaces between.



# Blow Hot, Blow Cold





I am Ashraf. I live in
Kashmir. Most of the time
here the wind is very cold.
It makes my teeth
chatter. I like to sit in the
sun or near a fire.



I am Lakshmi. I live in Chennai. These days the sun is too hot. My feet burn if I walk barefoot. I like to sit in a pool.



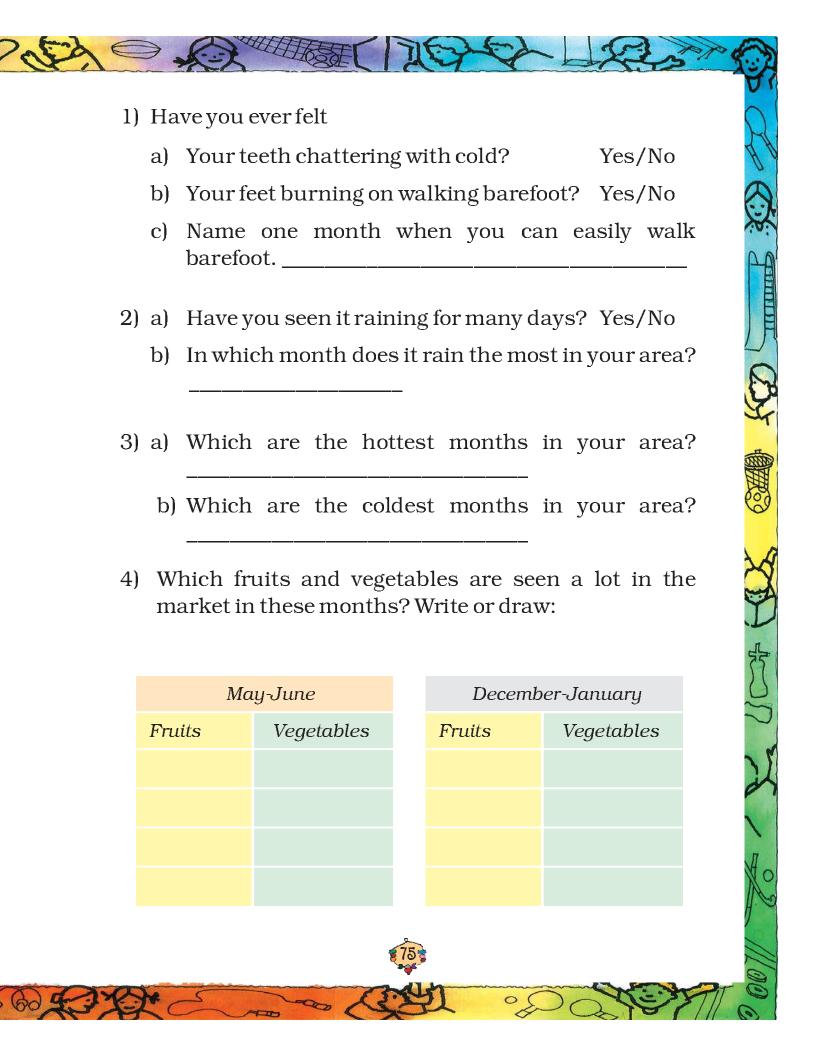




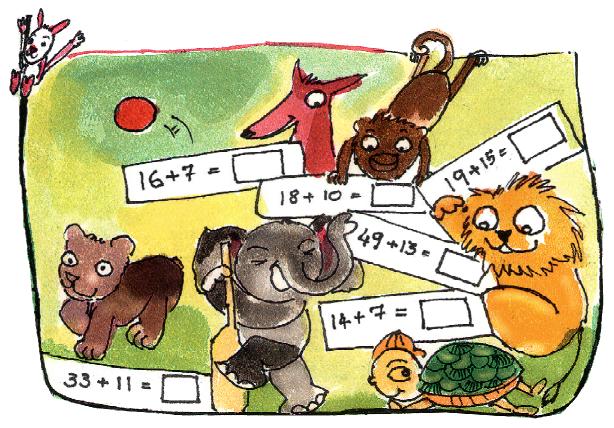
I am Rubaiya. I am in Meghalaya. Here the rains just don't stop. The sun is hiding behind dark clouds.

Encourage children to share their own experiences about different seasons.



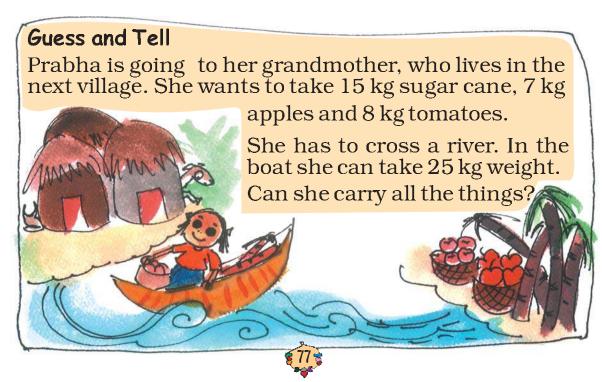


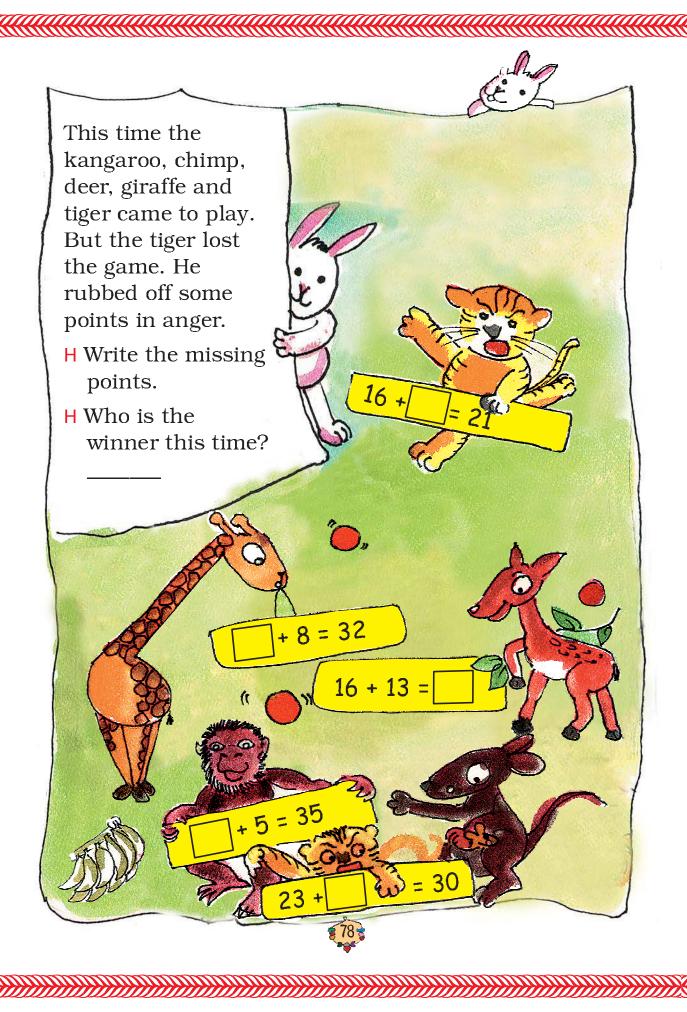




- H Who won the game?———
- H Who lost the game?———

The winner got bananas from Bunnoo.





#### Heads and Tails

Have you seen the two sides of a rupee coin? Which side has 1? Heads/Tails



Sameena and Sadiq are playing. The board has numbers from 1 to 99. Each player has a button.

They toss a coin. If it is "Heads', the button moves 10 steps. So, if Sameena is on 6, she moves to 16. If she gets 'Tails', she moves only one step.

	1000					()			S. C. C.		
	91	92	93	94	95	96	97	98	99	Home	
	81	82	83	84	85	86	87	88	89	90	
	71	72	73	74	75	76	77	78	79	80	
	61	62	63	64	65	66	67	68	69	70	
	51	52	53	54	55	56	57	58	59	60	
	41	42	43	44	45	46	47	48	49	50	
	31	32	33	34	35	36	37	38	39	40	
	21	22	23	24	25	26	27	28	29	30	illi eg
	11	12	13	14	15	16	17	18	19	20	
Start 8	1	2	3	4	5	6	7_	8	9	10	

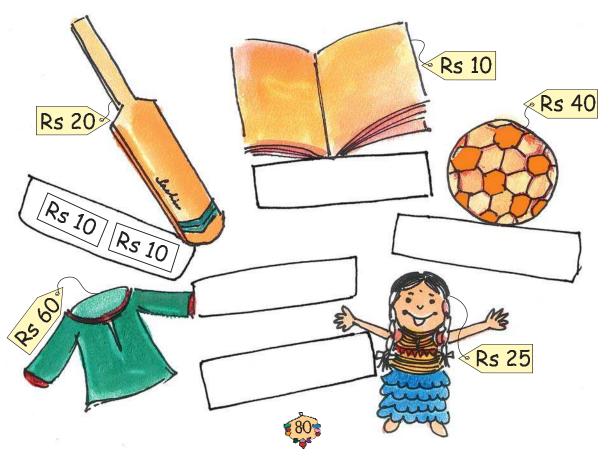
Now you also play this game. The one who reaches home first, wins the game. Is there a short cut for 10 steps?

#### Two at a Time

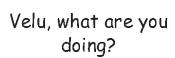
Chintu and Mintu went shopping. They bought some things. To pay they used notes and coins, but only two at a time.



R Out of these, which two can they use to buy the things below? They can use the same note or coin more than one time.



### How Fast Can You Add?





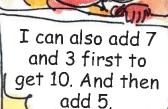


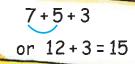
Akka, please help me add.

Oh... you can add these without writing!

Start from 7 and count 5 more to make 12. Then add 3 more.

You get 15.







$$7 + 5 + 3$$
 or  $10 + 5 = 15$ 

Then

#### Do These

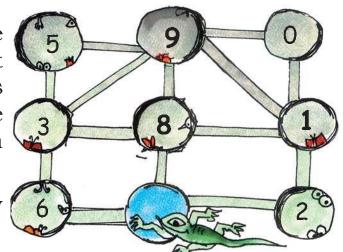
Let children do these sums by adding mentally. If some are not yet able to do so, encourage them to use the snake or the hundred chart. They can also be helped to find different combinations in order to add fast.





A lizard moves from one hole to another. As it moves, it eats insects hidden in the hole. The number of insects in each hole is shown.

The lizard can move only along the lines.



Starting from the blue hole in the picture, the lizard goes to three holes to eat 18 insects.

This is the path the lizard takes—

$$8 + 1 + 9 = 18$$

Y What path can the lizard take to eat 12 insects?

Y What path can the lizard take to eat 20 insects?

This time the lizard goes to four holes to eat insects.

Y What path does the lizard take to eat 18 insects?

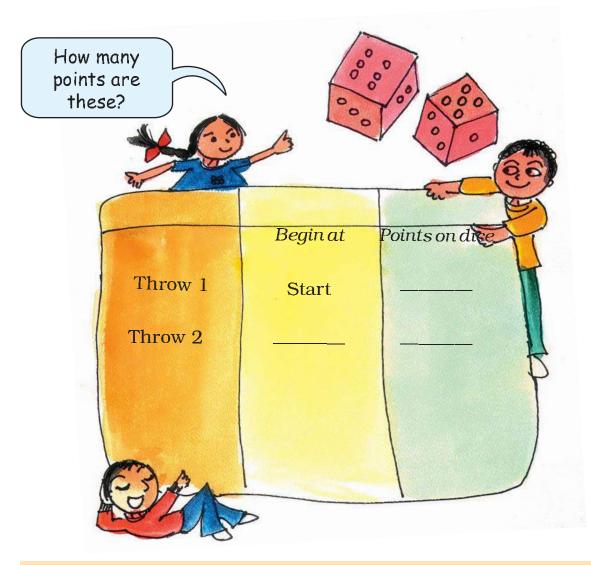
Y What path does the lizard take for 12 insects?



## Play Time

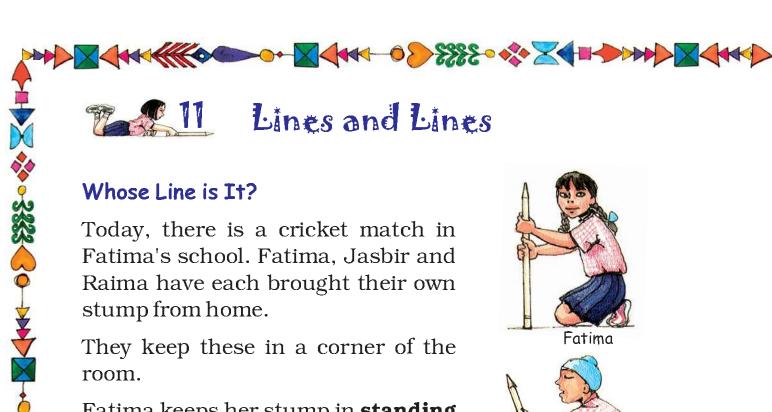
Sameena and Sadiq are now playing another game on the board of Heads and Tails. They throw two dice and add the numbers to get their points.

You too can play this game. Throw your dice and write your points. See who is the first to reach home.



This record could help children check their moves. For instance, they could see that, starting from one number in the left column, they get to the next by adding the points in the right column. Use the board on page 79.





Fatima's school. Fatima, Jasbir and Raima have each brought their own stump from home.

They keep these in a corner of the room.

Fatima keeps her stump in **standing** position.

Jasbir keeps his stump in slanting position.

Raima keeps her stump in sleeping position.







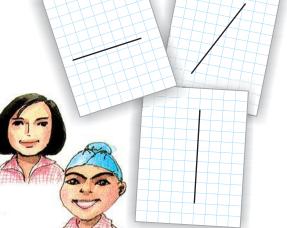
To show others how they have kept their stumps, they draw lines in a notebook.

Fatima draws a **standing** line.

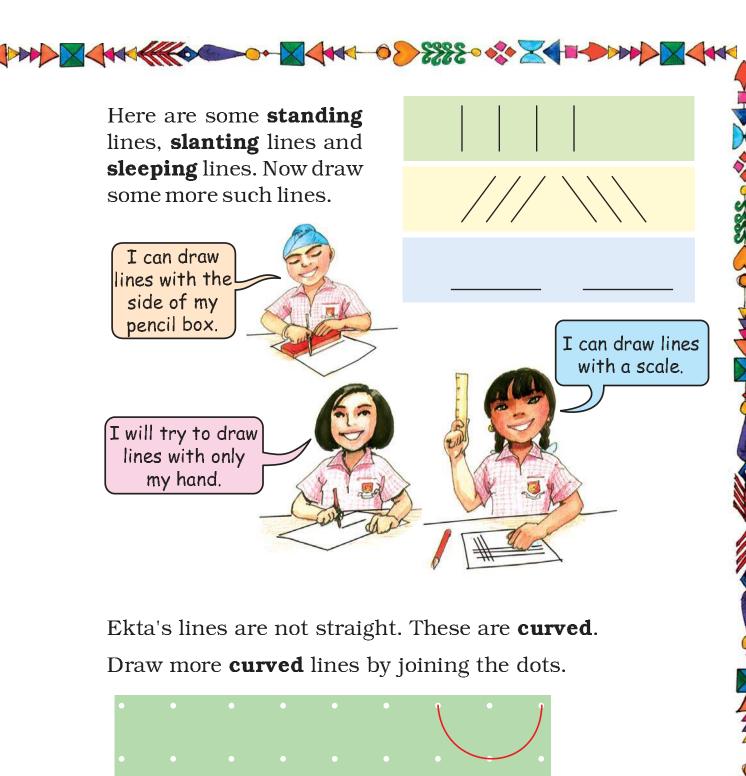
Jasbir draws a **slanting** line.

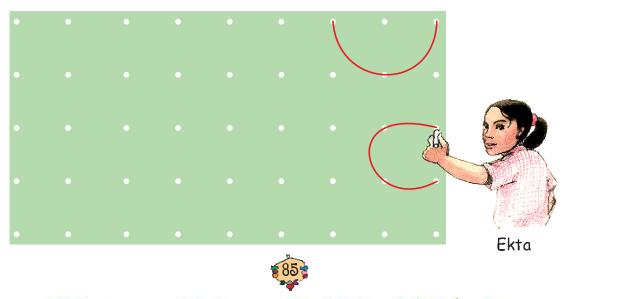
Raima draws a **sleeping** line.

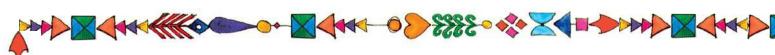
Match the picture of each child with the correct line.



**○>**\$\$\$\$









× -38% 0 VVV

#### Fun with Lines

Jigyasa has a clock. She can read the time written in numbers and also the day of the week. The numbers and letters are made with straight lines.

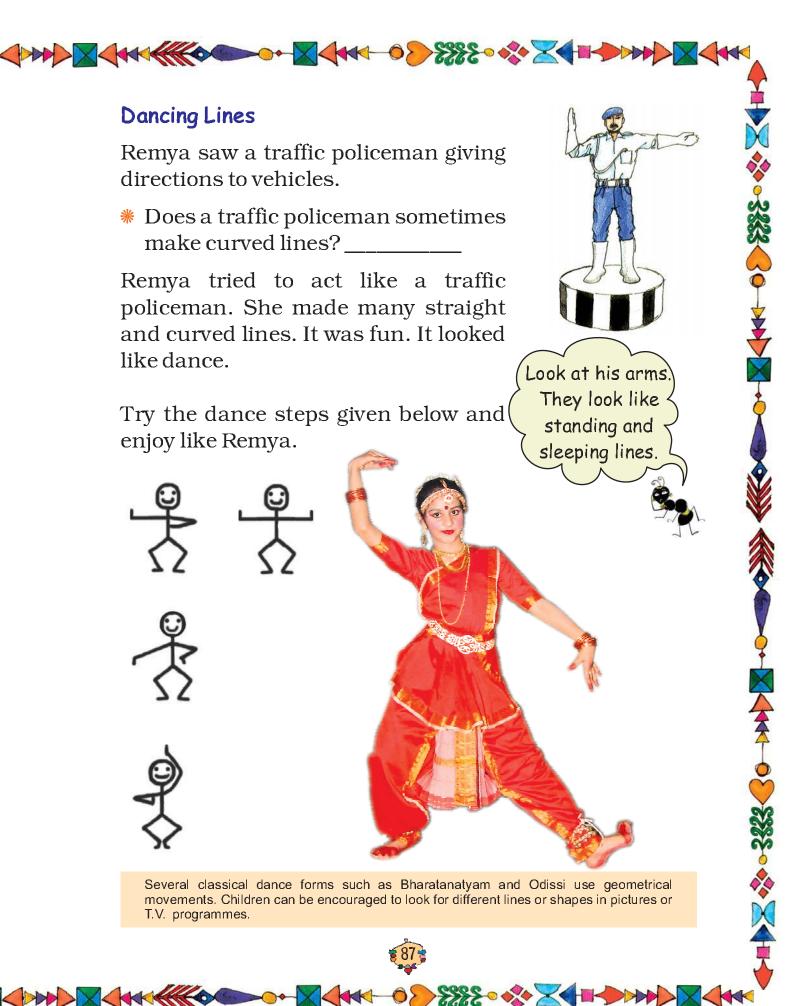
Jigyasa made more numbers and letters with used matchsticks.

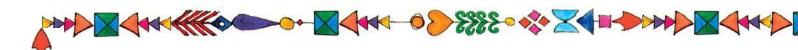


- Collect used matchsticks. Have fun making numbers and letters with these.
- \* Is there any number or letter that you cannot make with matchsticks?
- \* Now write some numbers using straight lines.
- \* What about writing letters using straight lines? Which ones are easy?
- \* Find out where else numbers and letters are written with straight lines.



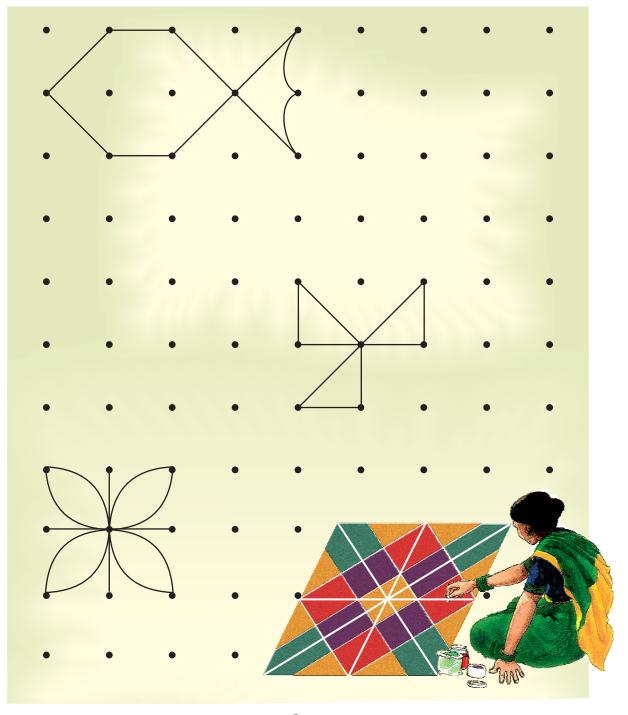






# Designs with Dots

\* Join the dots with curved or straight lines. Make your own designs.



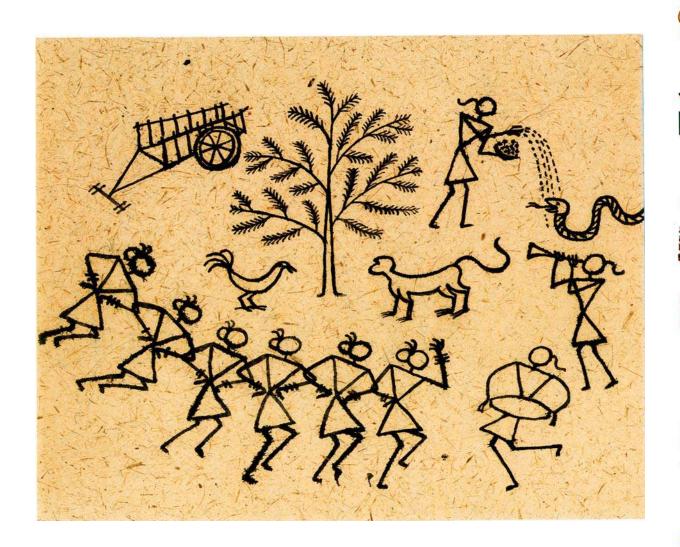




## Lines in Pictures

Nancy saw these pictures made by folk artists.

\* Look for different types of lines curved, standing, slanting and sleeping.



\* Draw some more pictures like these.



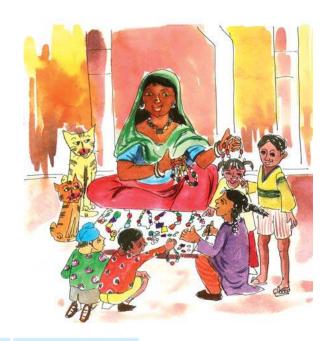


# Give and Take

Kinnaree sells beads in the bazar. She sells loose beads and necklaces of lobeads each.

Razia wants 12 beads. So Kinnaree gives her one necklace and two loose beads.

Now you find how many necklaces and loose beads the other children take.



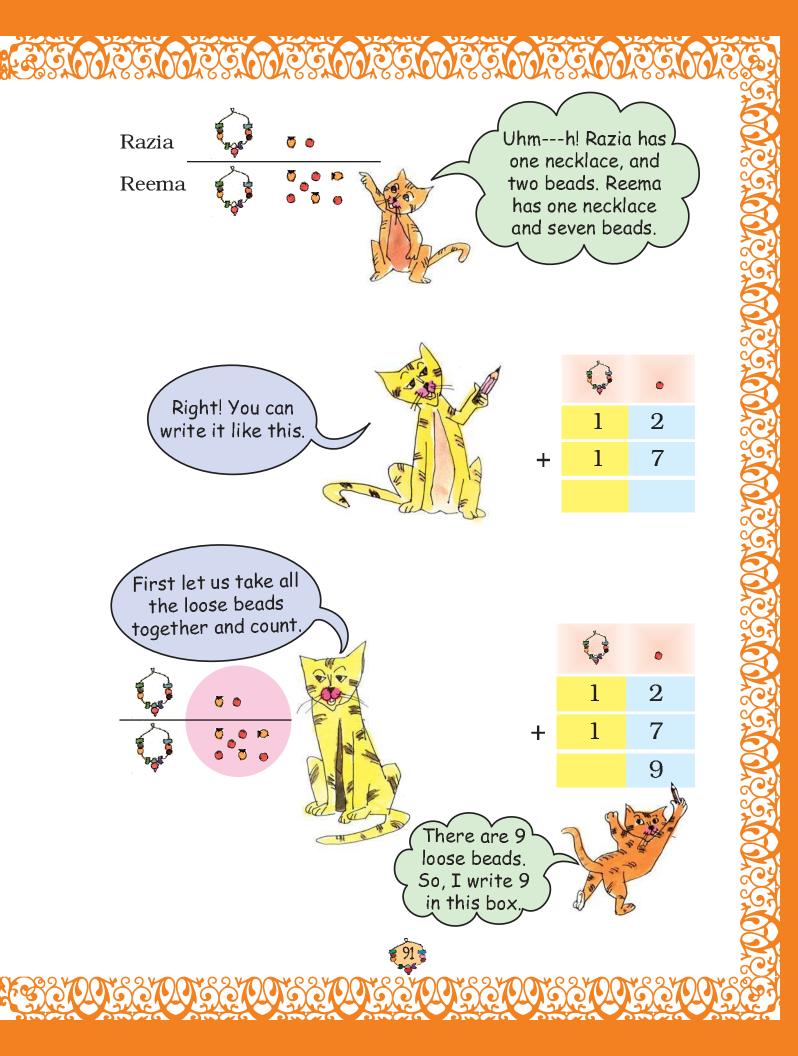
	Beads	Necklace of 10 beads	Loose beads
Razia	12	The state of the s	0 0
Reema	17		
Aarif	24		
Sonu	35		
Simar	31		

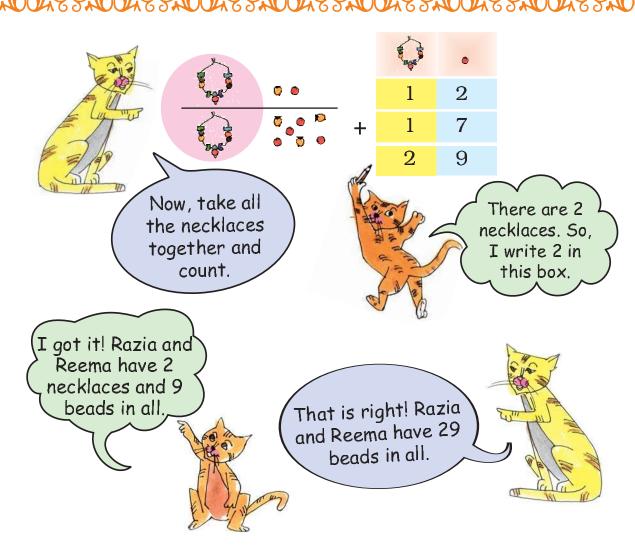


How many beads are taken by Razia and Reema together?

Encourage children to make groups of 10 using materials like beads, matchsticks, buttons etc. These concrete experiences will help develop their understanding.

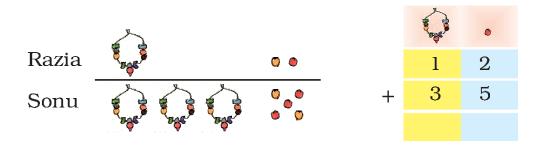






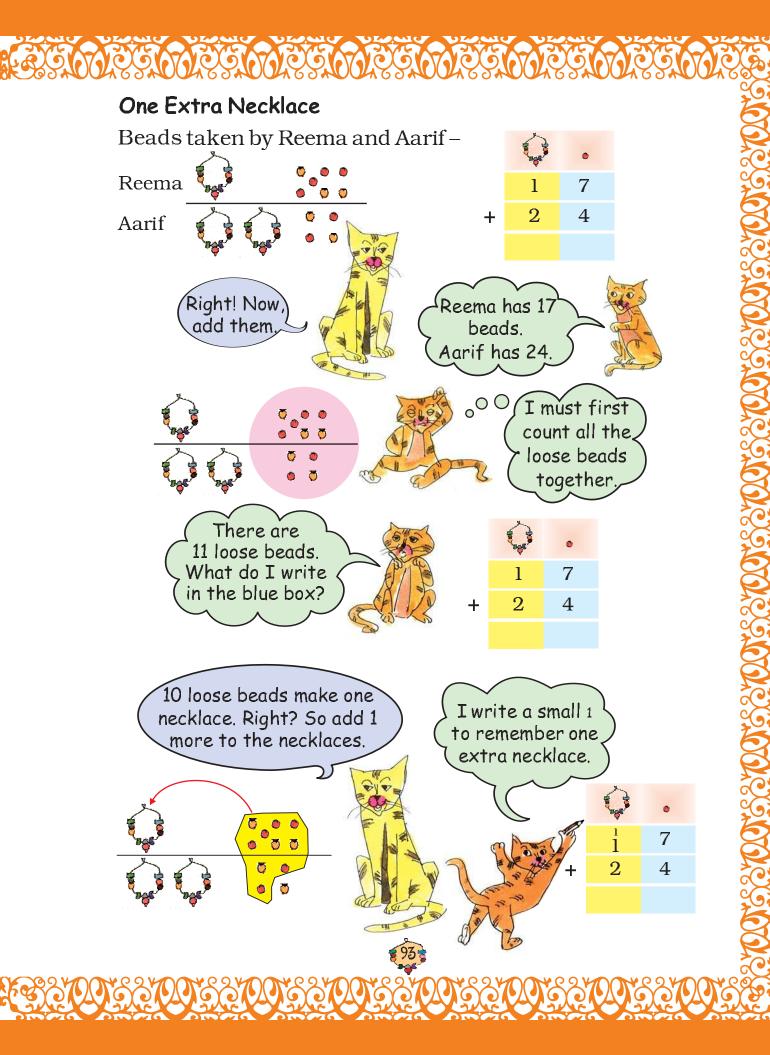
#### **Practice Time**

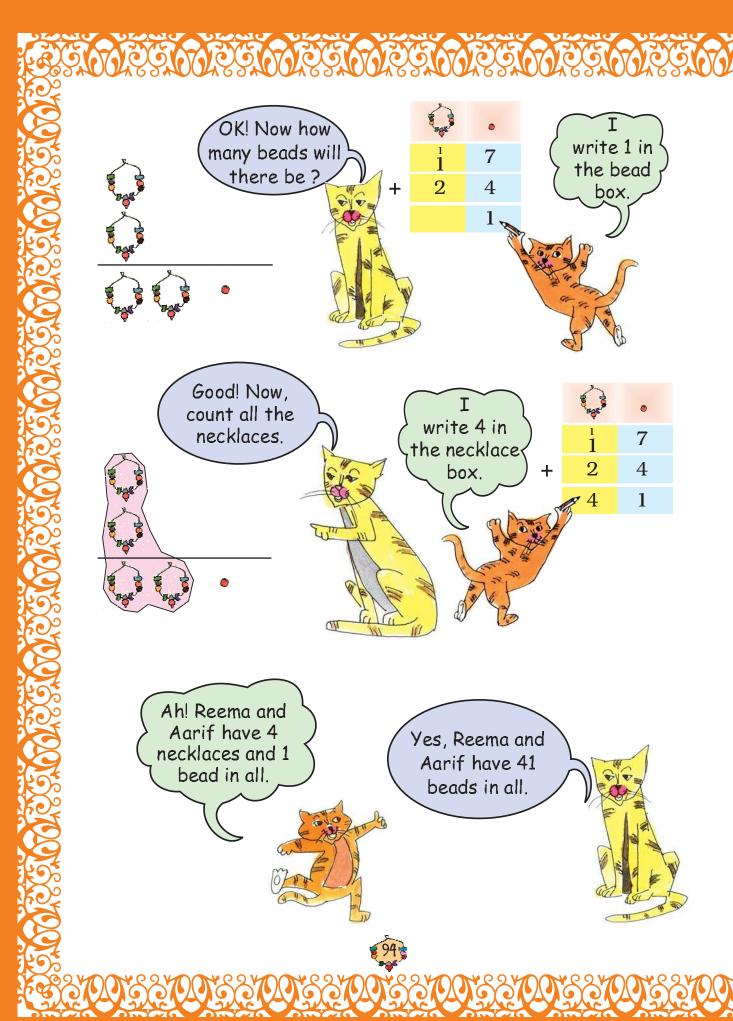
h How many beads are taken by Razia and Sonu?

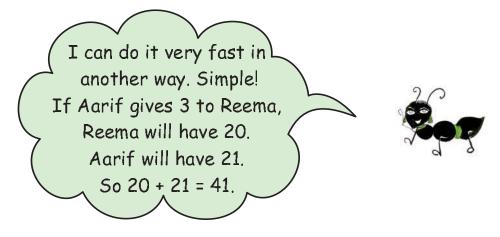


\_\_\_\_\_ beads are taken by Razia and Sonu.





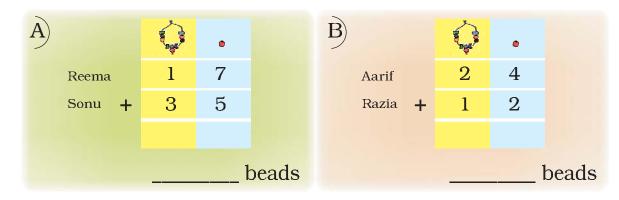




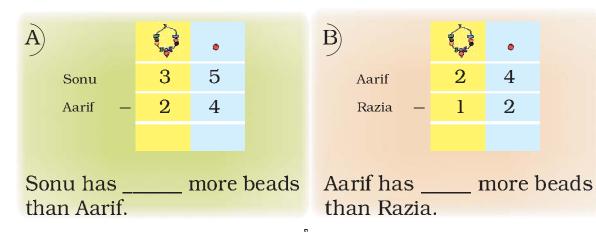
Can you do it some other way?

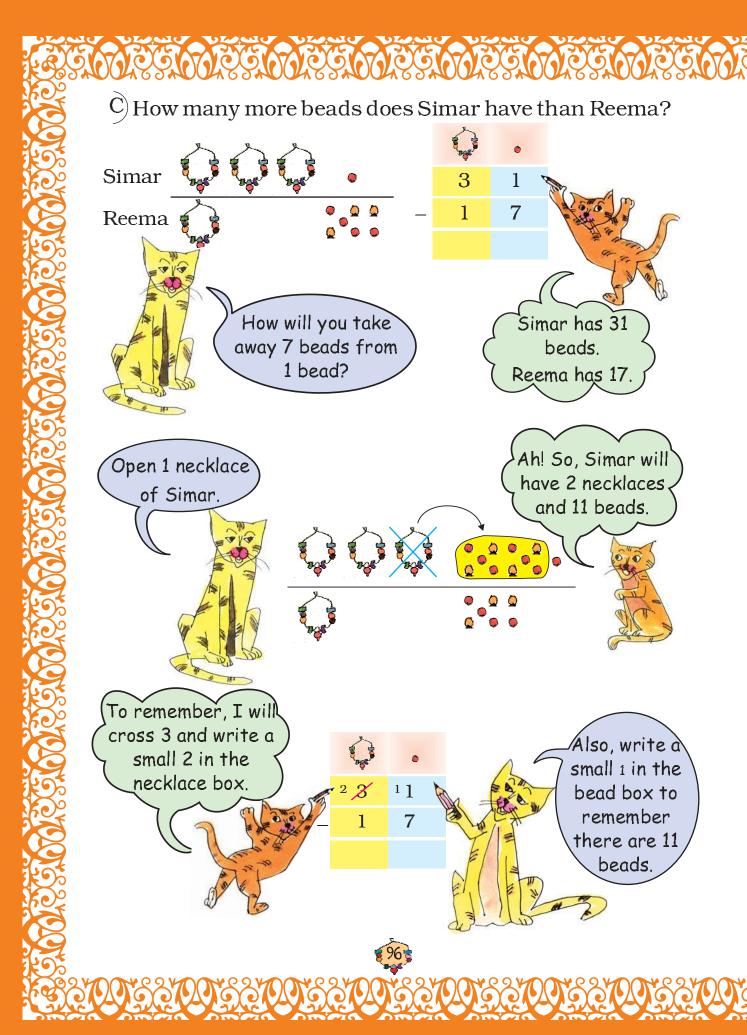
#### Add by writing and also without writing

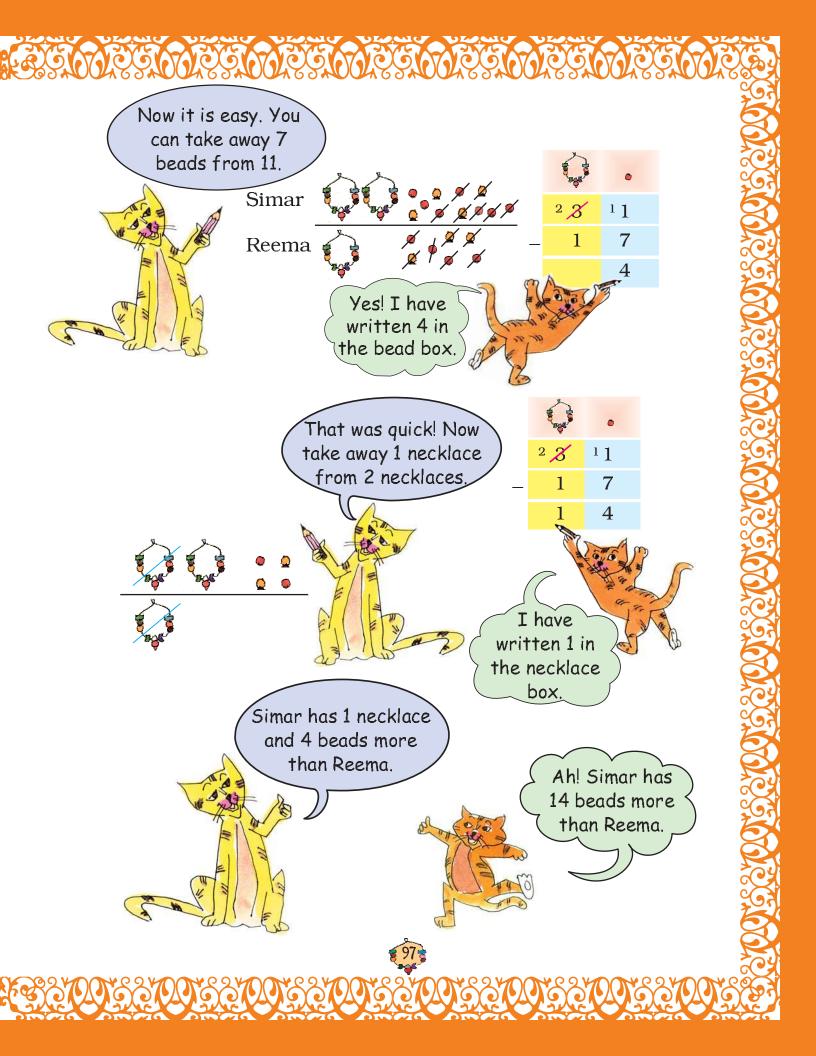
How many beads do they have together?



# How Many More Beads?

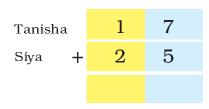






# Practice Time: Also do it in your mind

h Tanisha has 17 pencils. Siya has 25 pencils. How many pencils are there in all?





If Siya gives 3 pencils, then Tanisha will have 20. Siya will have 22 pencils. It is easy to add 20 + 22.

h In Muneeza's class, there are 13 English story books and 22 Hindi story books. How many story books are there in all?

	1	3
+	2	2

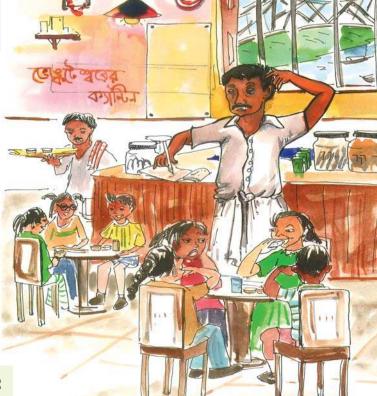
h Sakshi had 23 fruits. She ate 15 fruits. How many fruits are left?

h Daljeet has 35 marbles. Arvind has 25 marbles. How many marbles do they have in all?

h Nisha has 32 bangles. Sukhi has 16 bangles. How many more bangles does Nisha have?

# Venkatesha's Canteen

Help Venkatesha to make the bills.



	Rupees			
Dosa	2 3			
Uthappam	28			
Total				

	Rupees
Idli	15
Coffee	. 8
Total	• · · · · · · · · · · · · · · · ·

,	Rupees
Dahi Vada	2 5
Chilli Rice	18
Total	• • • • • · ·

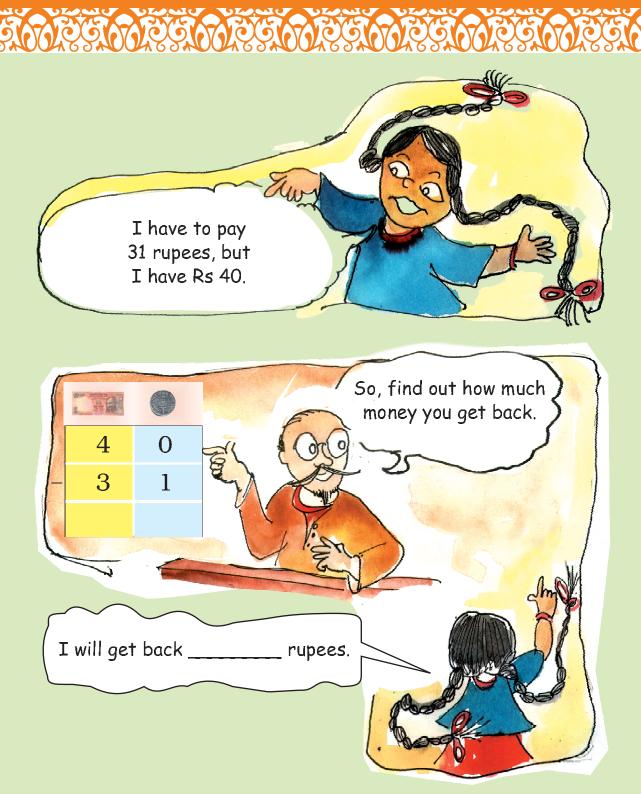
	Rupees
Soup	27
Noodles	15
Total	• · ·

In this chapter, the standard algorithms for addition and subtraction have been explained using some examples. However, it should be emphasised that learning only algorithms does not help to develop children's conceptual understanding of the operations. For this, it is important to give them many word problems and encourage them to find out alternative ways to solve them.









Children should draw and make their own play money. They could be given different exercises and games which involve simple calculations.



#### Practice Time

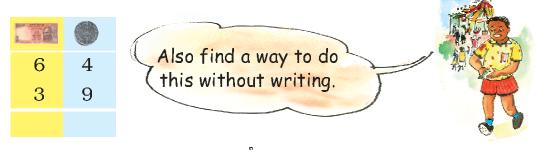
h Shekhar has 32 rupees. He bought a ball for 17 rupees. How much money is left with him?



h Soni bought biscuits for 24 rupees and a packet of chips for 16 rupees. How much money will she pay?



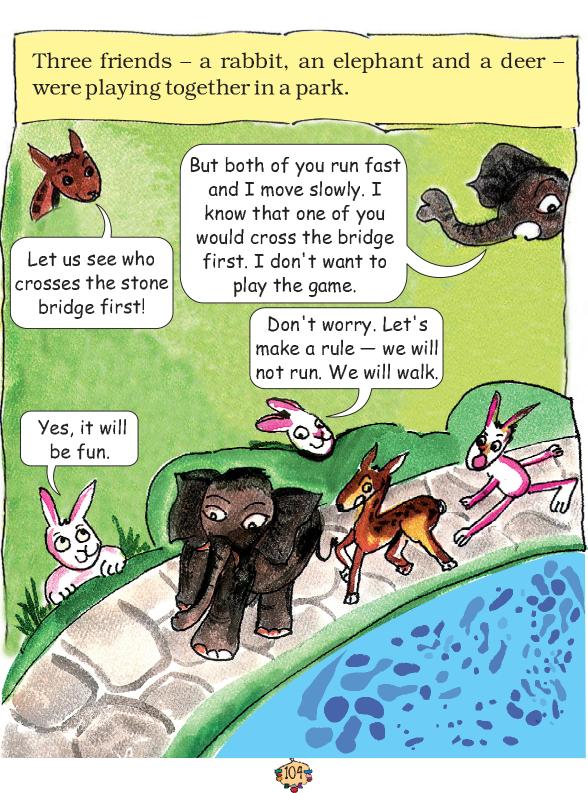
h Fantoosh had 64 rupees. He spent 39 rupees at the fair. How much money is left with him?







# The Longest Step





They started the game.

Surprisingly, at the end, the elephant won.

- D Can you tell why the elephant won?
- D Who takes the biggest step?
- D Act out this story.

### Activity



- D Make a group of 3-4 friends. Find out by drawing lines whose step is the longest.
- D Find the distance between
  - a) the door and any window of your class.
  - b) the blackboard and where you are sitting.





# Hand or Fingers?

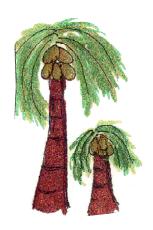
Rajat wants to find out the **length** of a few things using his **handspan**. These are shown in the picture.

- H Can he use a handspan to find the length of all these?
- H Which things around you are less than your handspan? Name them.
- H What would you use to find the length of those things?

# Activity

Make a mud house. See whose mud house is higher. You can use your fingers to find how high your mud house is.

- H Who made the highest mud house?
- H Whose mud house is the smallest?



#### Make a Guess

See these two coconut trees. If the bigger tree is 6 metres high, about how high is the smaller tree?















#### **Check Your Guess**

Guess the length or height of the things shown below. Find the length to check your answer.



Name of the thing	My guess	My result
Glass	fingers	fingers
Bucket	handspans	handspans
Your hand	matchsticks	matchsticks
Teacher's table	handspans	handspans
Your nose	fingers	fingers
Water bottle	fingers	fingers
Your hair	handspans	handspans

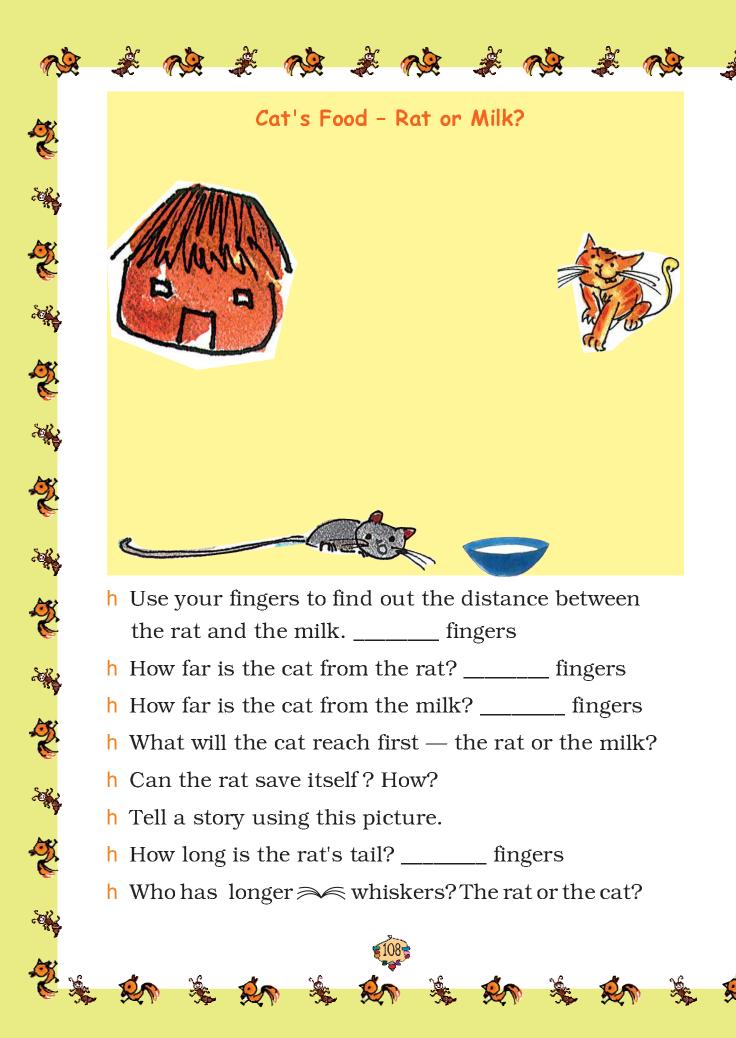
Demonstrate the correct use of units like fingers, handspans and matchsticks. Ask children to take an object and measure it using different units.

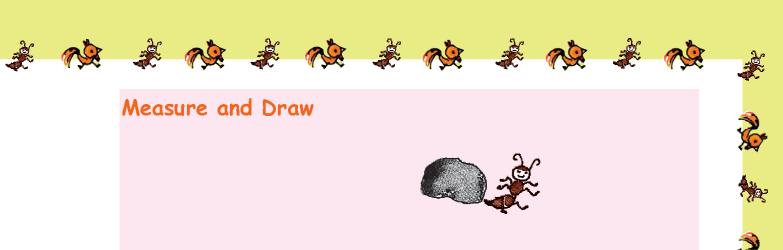












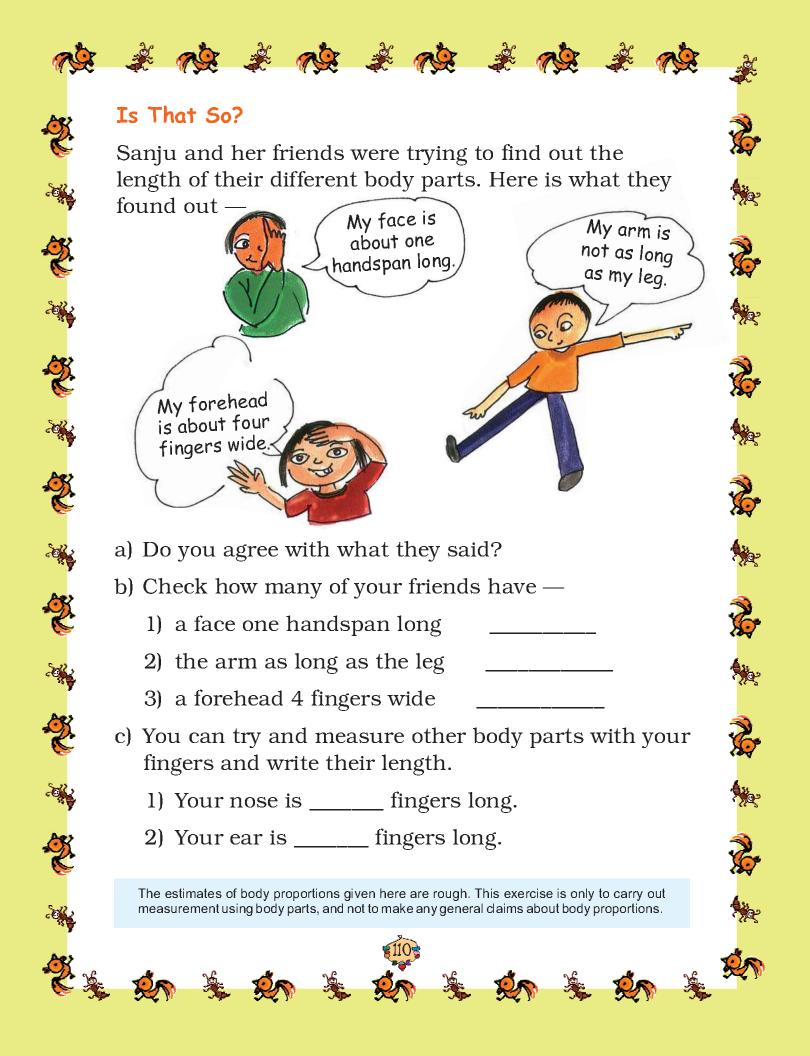


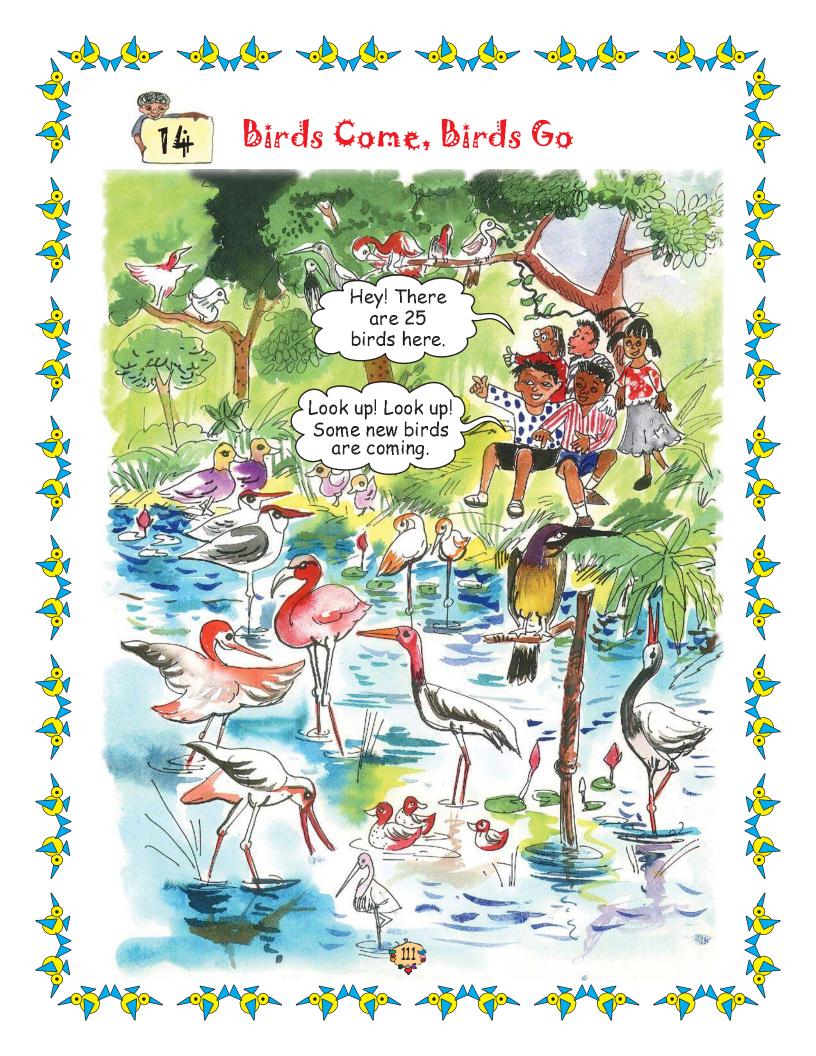
- F Draw a leaf 2 fingers away from the stone.
- F Draw a banana 5 matchsticks away from the monkey.
- F Draw a kite 7 fingers away from the stone.
- F Draw a cloud 3 matchsticks away from the kite.
- F Draw a bird 4 fingers away from the banana.

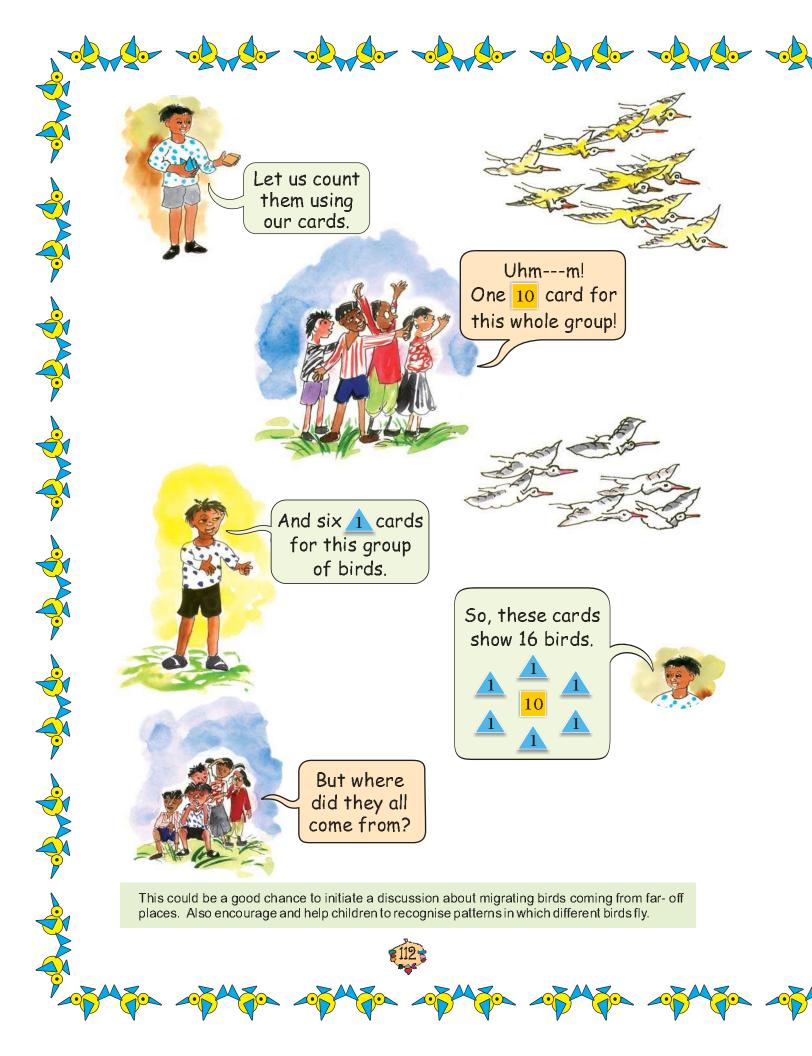
Draw yourself anywhere on the page. Find how far you are from the monkey's nose.

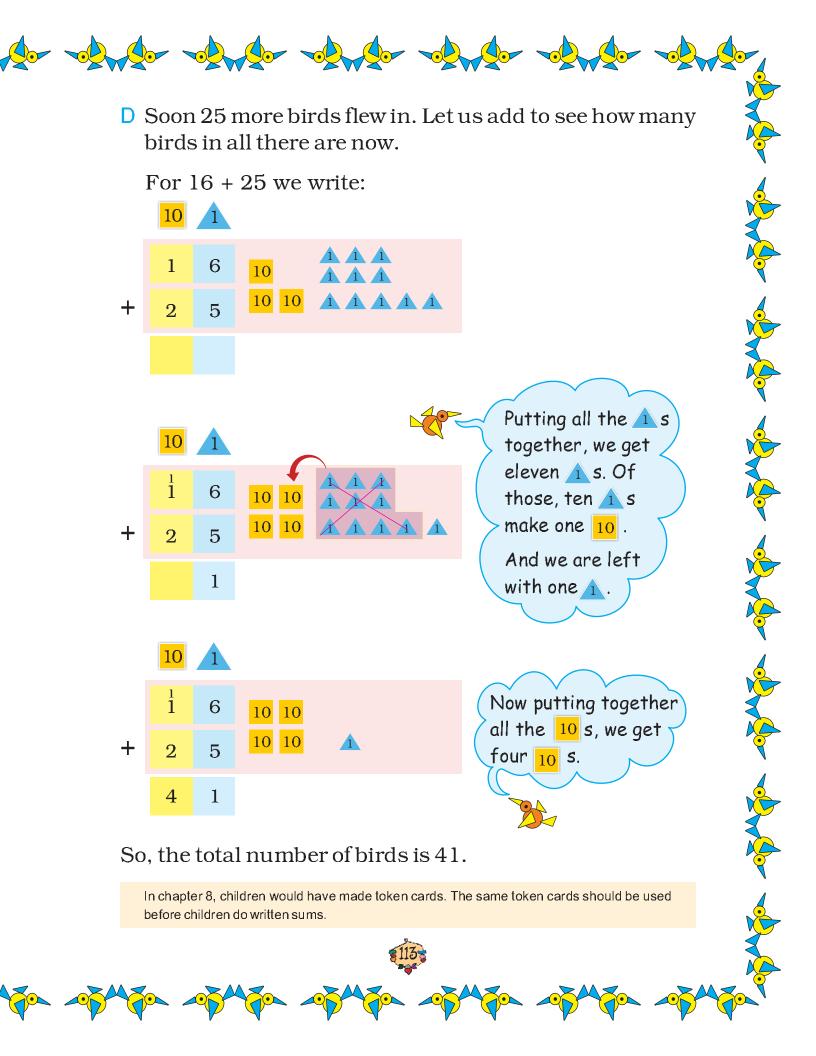
Let children measure and draw in any direction from the given reference object. They will measure distances in different directions. This can form the basis for a discussion on directions.

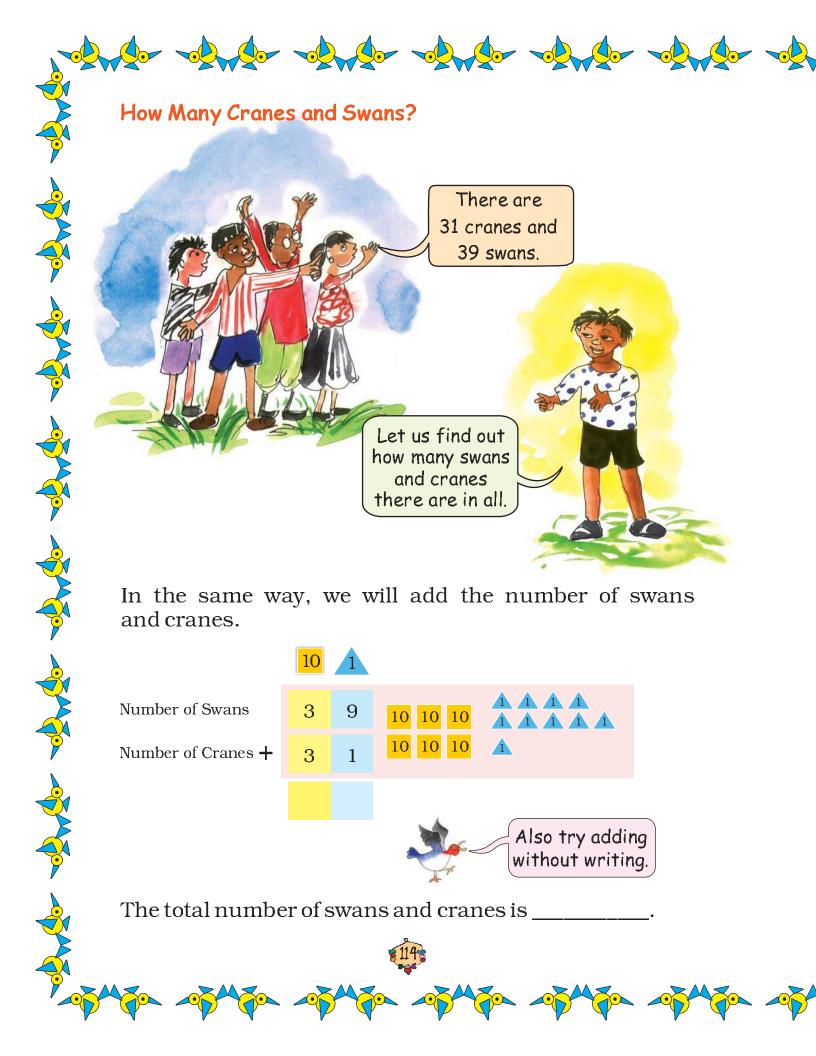


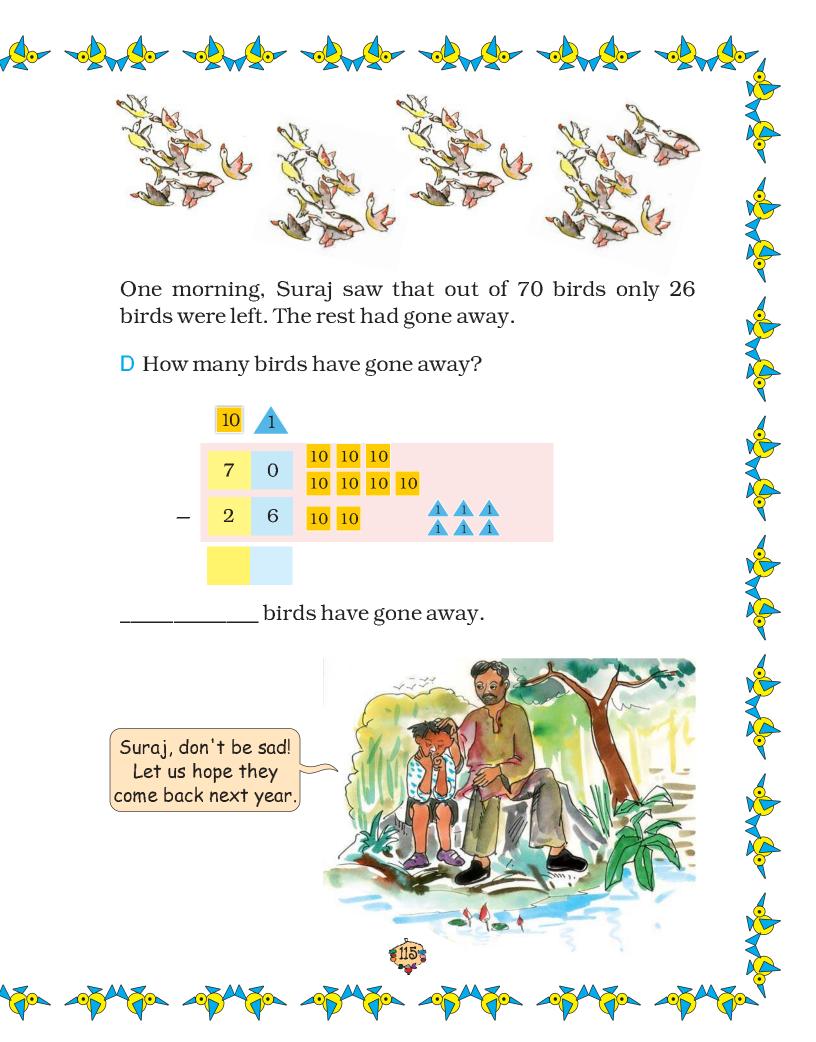


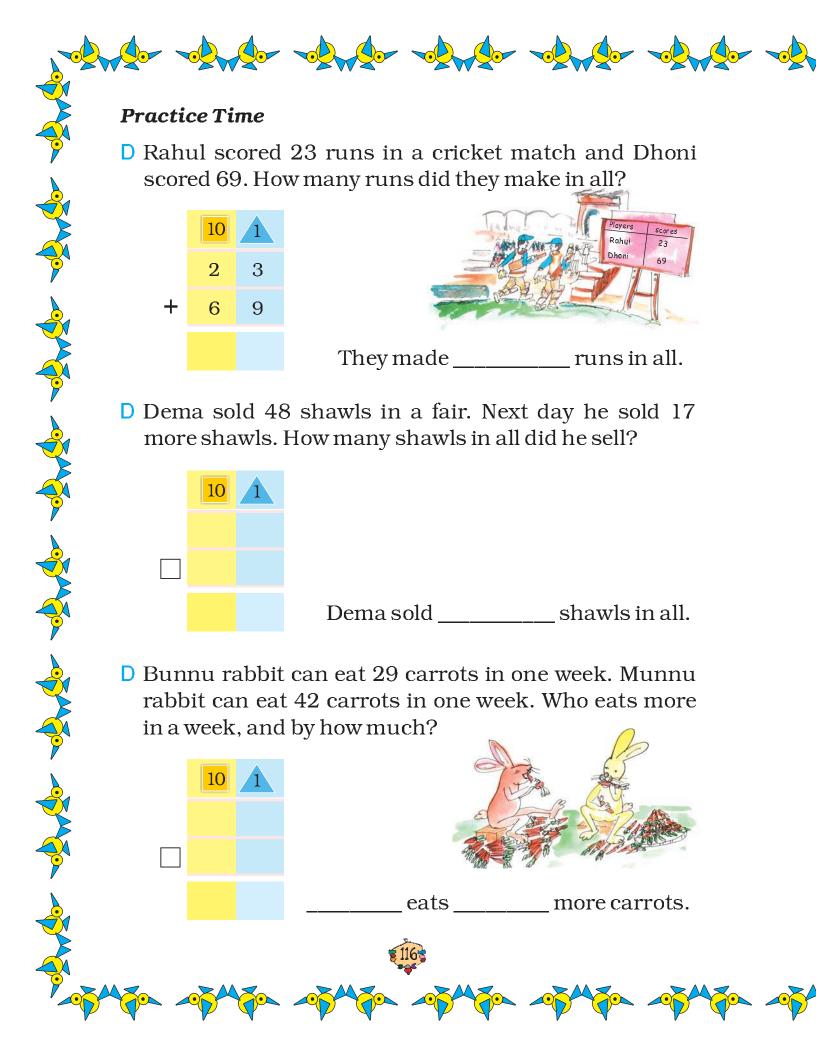




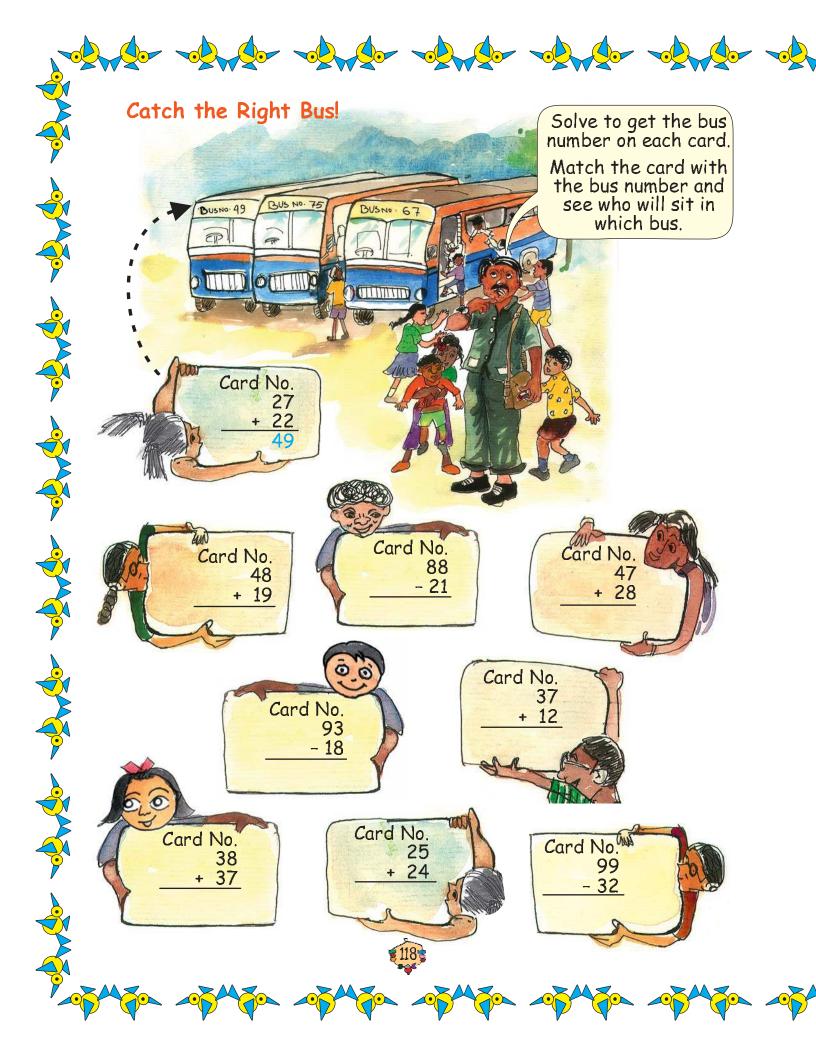


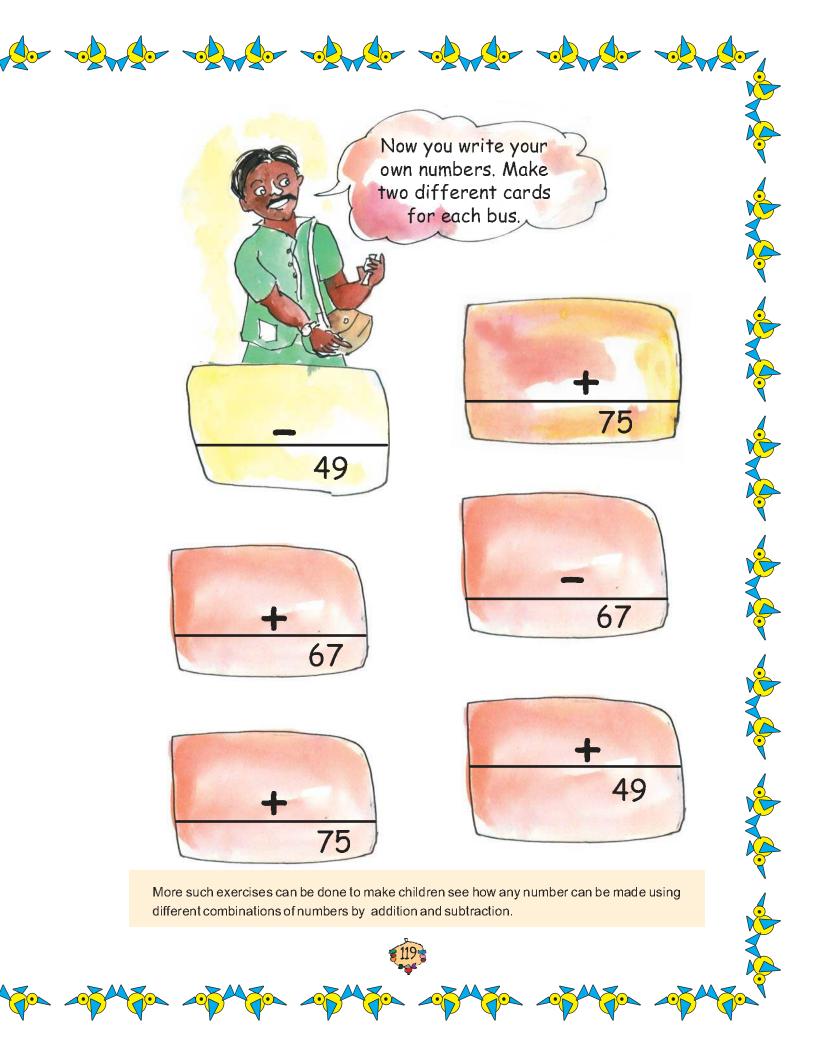


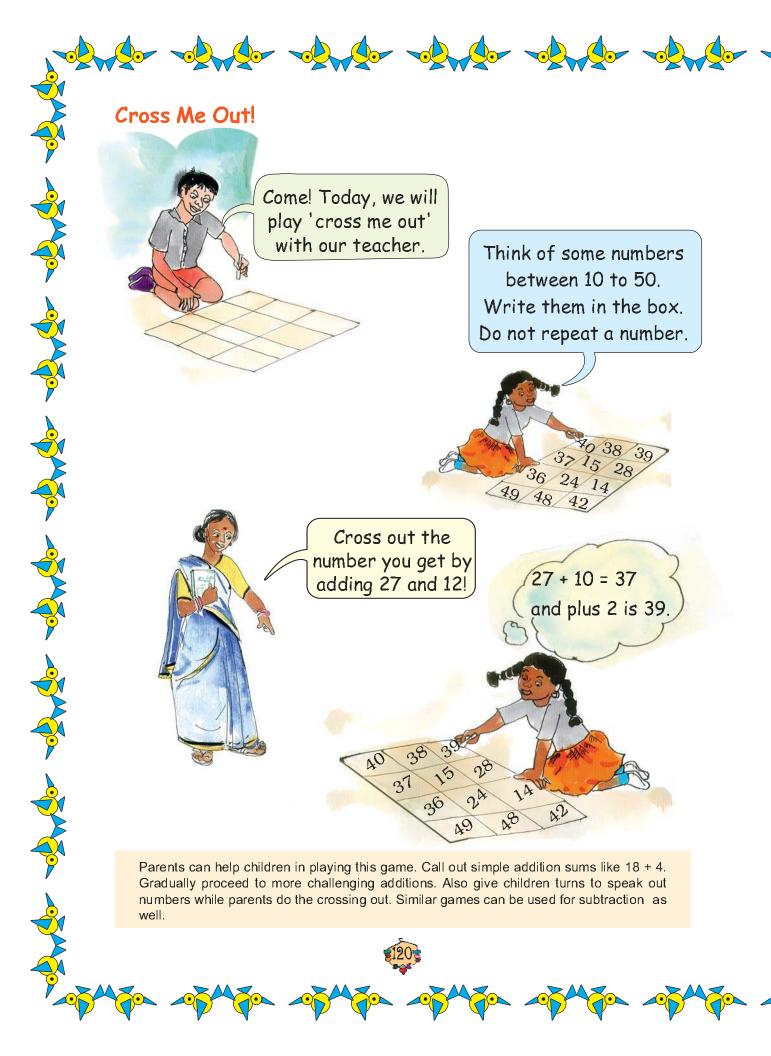


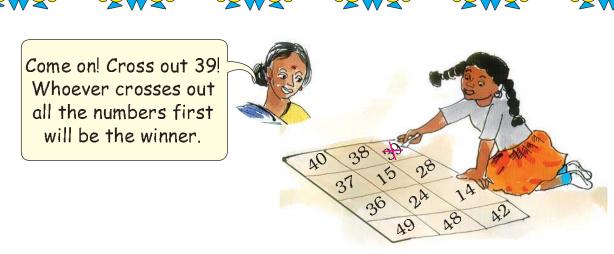


D Neha is 29 years old. Her mother is 58 years old. How many years older is Neha's mother? Mother is \_\_\_\_\_ years older than Neha. Find the Answer + + + + + More such examples may be set for practice.









Now you can finish this game for Razia. Ask your teacher or friend to speak out two numbers to add.

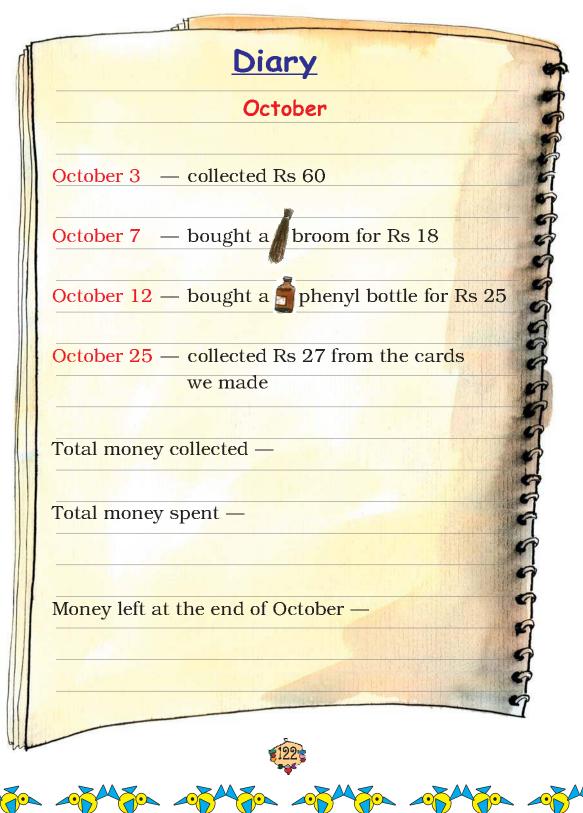
## Chakachak Toli

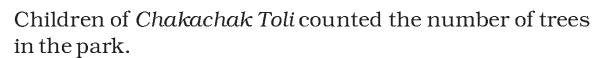


Chakachak in Hindi means clean and shining. Chakachak Toli is the name of a group of children who work to clean their park.



Shreya collects the money and writes it in her diary. Help Shreya to find how much money is left at the end of the month.





Trees	Number of trees				
	90				
	75				
	82				
	68				
	94				

- D trees were more than trees. How many more?
- Draw the tree which is least in number.
- D Draw the tree which is most in number.
- D Children planted some more trees to make 100. How many more did they plant?



# How Many Ponytails?

## Letters in Names

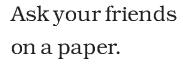








to write their names



### Find out

- a) The number of names ending with the same letter.
- b) One letter with which no name starts. \_\_\_\_\_
- c) The number of names starting with the same letter.

Fruit Seller

Bananas, apples, oranges — fresh fruits for you!

The fruit seller has many fruits for you.

Look at them and find out what the different fruits are.





#### Count and write

Fruit	Number of fruits



# Hair Styles

Mala is going to school.



Mala has two ponytails.



Look at the children in your class.

All children comb their hair in different ways. Look and write down.



Hair style	Number of children				



Find out and fill in the blanks.

a) The number of children with is \_\_\_\_ than the number of children with (more/less)

b) \_\_\_\_ children have

# Shoe Numbers

Look at the feet of children in your class. Everybody is wearing shoes, he chappals or sandals.

Look at the sole of the shoes or chappals

If there is a number on the sole, it is your shoe size.

Fill this table:

Shoe size	Number of children
9	
10	
11	



#### Find out

- a) How many have 9 size shoes? \_\_\_\_\_ children.
- b) The number of children with 11 size shoes is \_\_\_\_\_.
- c) The largest number of children have size shoes.
- d) The smallest number of children have size shoes.

## Water We Drink

We drink water every day.



Ask your friends how many glasses of water they drink in a day and write below.

How many glasses?	Number of children

## Find out

- a) The number of children who drink 🗑 glass of water is
- b) properties of water is drunk by \_\_\_\_ children.
- c) The number of children who drink grade glasses of water is \_\_\_\_ than children who drink grade glasses of water. (more/less)



## The Colour You Like

There are many colours around you.

Ask your friends about the colour they like most.

How many children like yellow? Write the number in the table. Fill the table for other colours.

Colour liked	Number of children
Yellow	

# Find out and colour the box

a) Most children like

b)	Children who like	colour	are	more	than

colour.

children who like colour.

c) Children who like colour are less than

children who like colour.

Encourage children to interact with one another in small groups and collect information as required. Let them fill information in the tables and attempt to answer the "find out" questions.

