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STANDARD TWO TERM - I VOLUME - 2

MATHEMATICS ENVIRONMENTAL SCIENCE

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Department Of School Education Untouchability is Inhuman and a Crime

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GOVERNMENT OF TAMIL NADU

Government of Tamil Nadu

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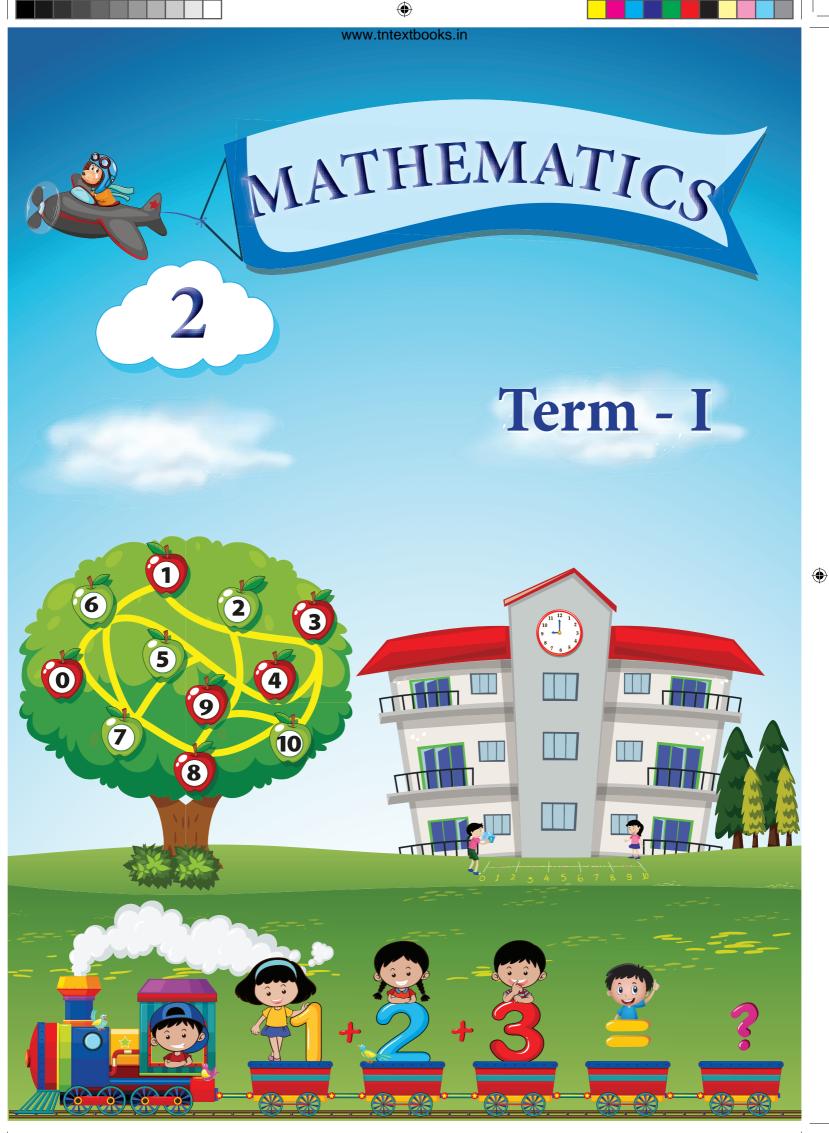
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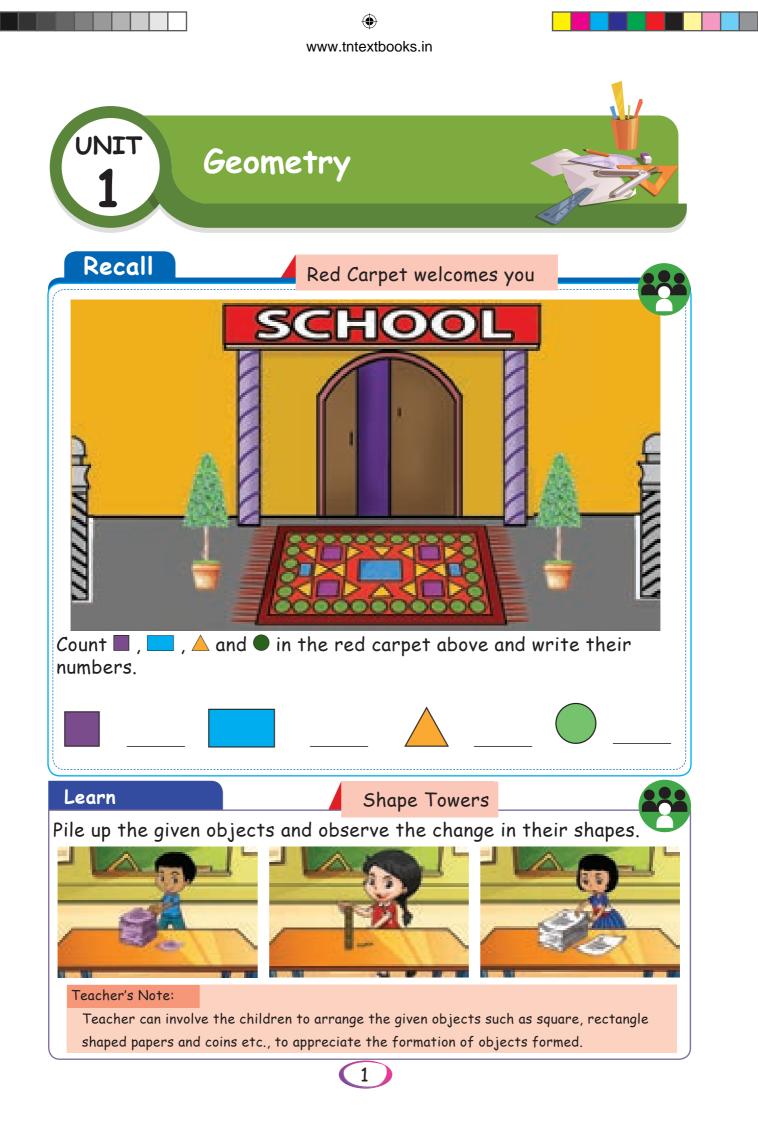
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E-BOOK

ASSESSMENT

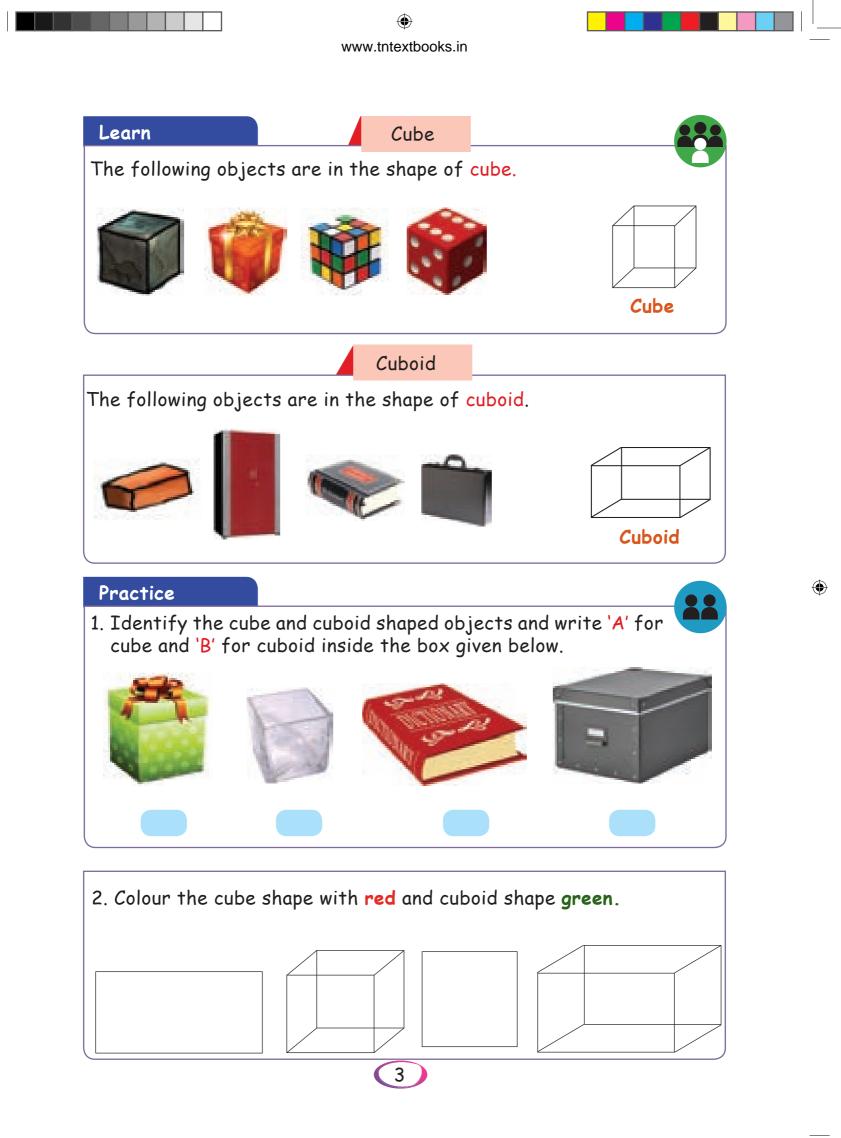
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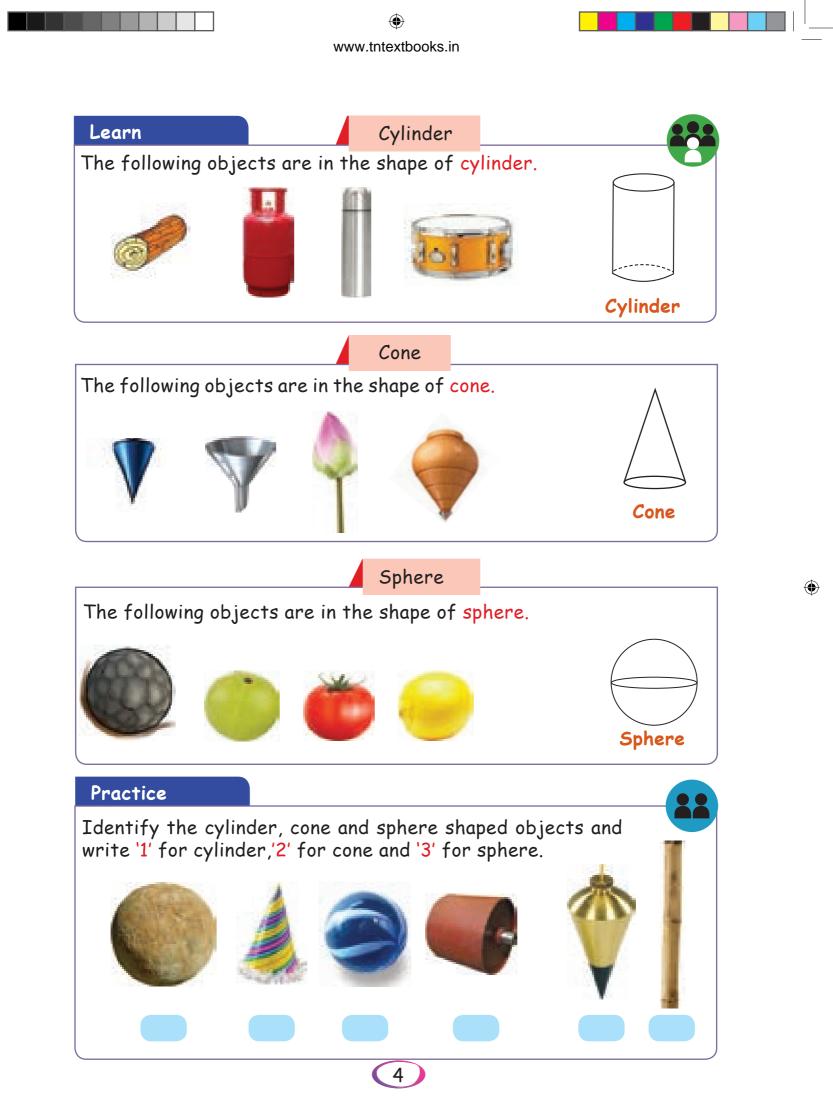
 

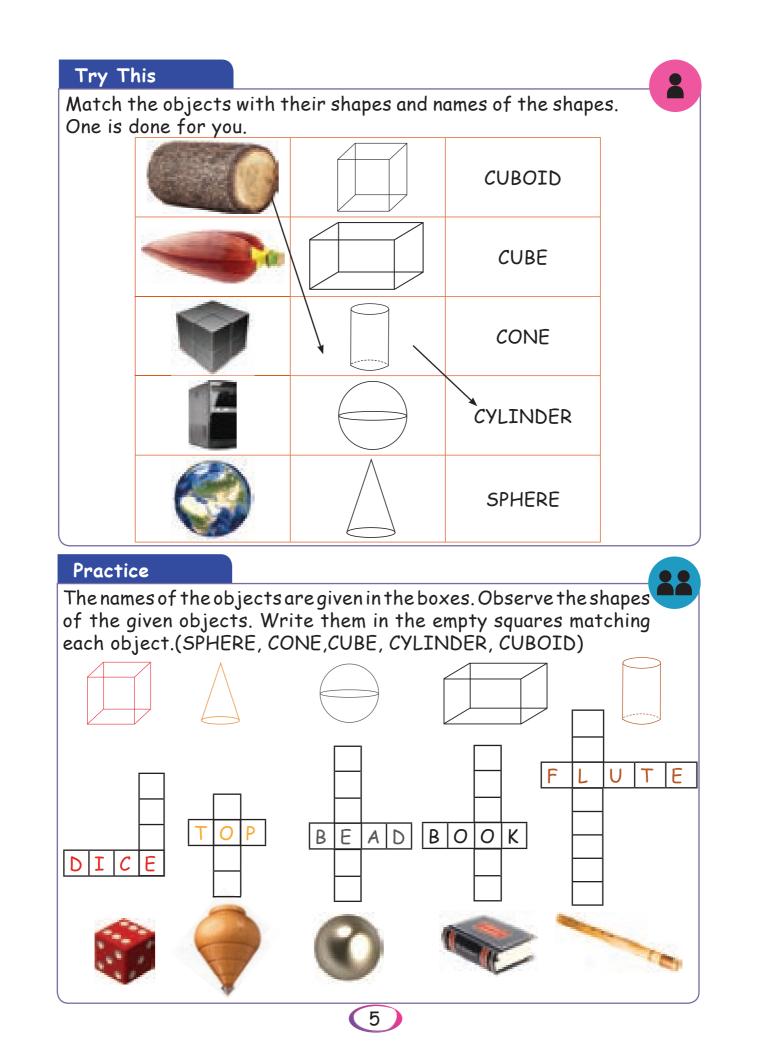


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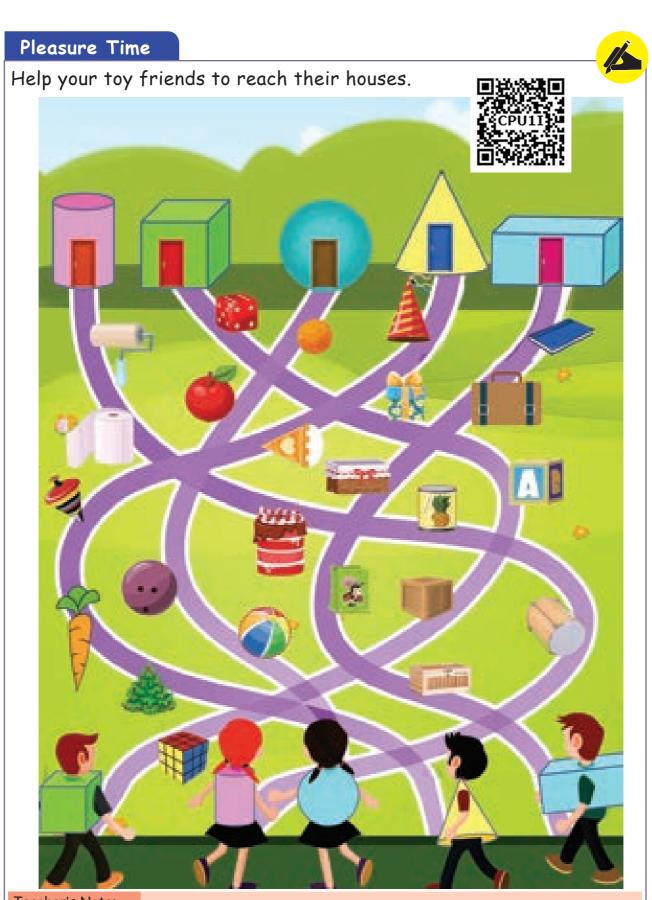
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Teacher's Note:

Teacher can encourage students to draw the path for the toy children to reach their houses. They need to collect their identical shapes on their way. Example cube, cylinder, sphere, cone, cuboid.

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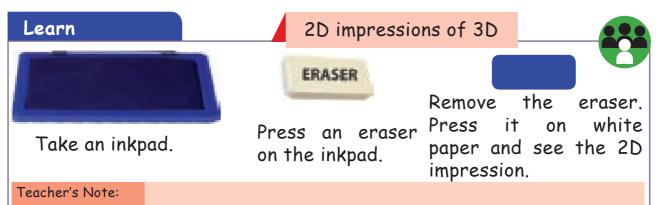
1.2 Identification of 2D shapes and 3D objects



Teacher's Note:

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Place the objects on a table as given in the picture and fix a cardboard behind the objects. Now glow a torch light from the front side of the objects horizontally and make students see the images of the objects on the cardboard.



The teacher can explain that various 2D shapes can be obtained as per the 3D objects used.

Practice

Based on the above activity, fill in the table given below.

Objects used	Shapes formed				
Eraser	Rectangle				
Sharpener					
Dice					
Bead					
Teacher's Note:					
Do the activity by using the objects like	pencil, sharpner, dice, ball, beads etc., Observe the				

impression.

(7)

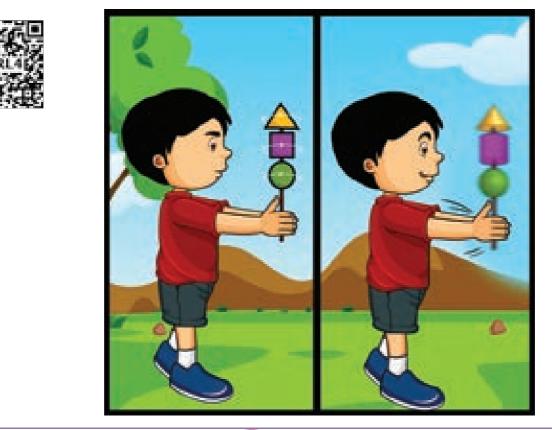
Try This Draw the outline of the objects using pencil. Remove the objects								
and write the names of the shapes formed. 3D Shaped objects Traced figure Name of the 2D shape								
ERASER		Rectangle						

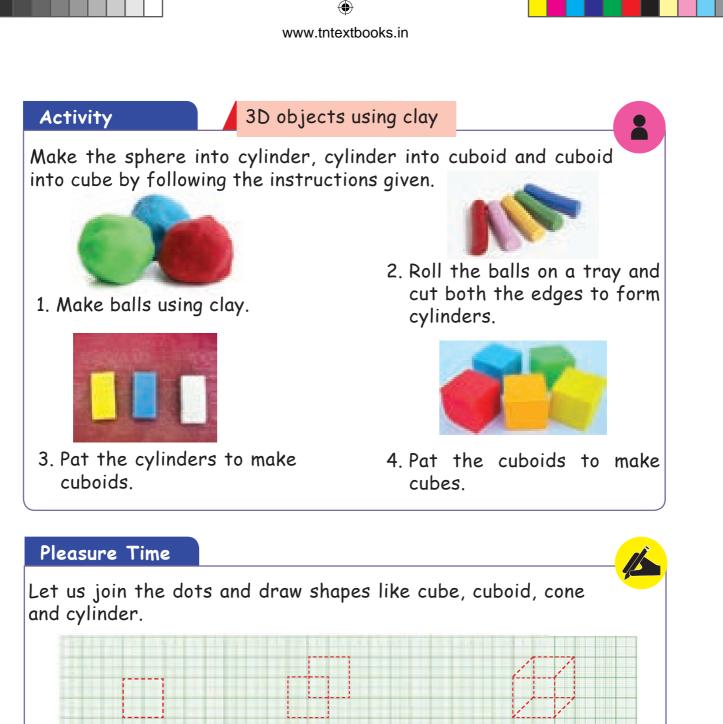
Activity

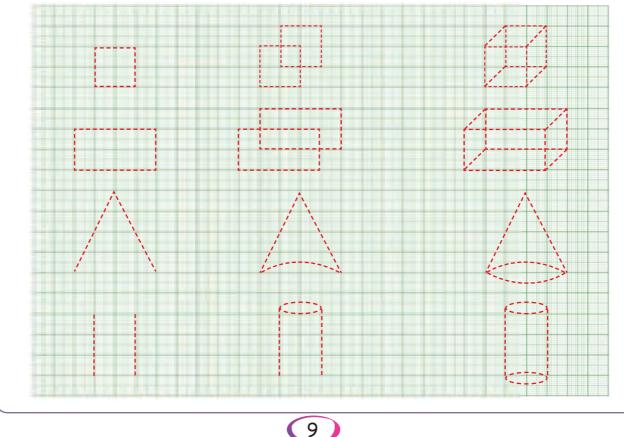
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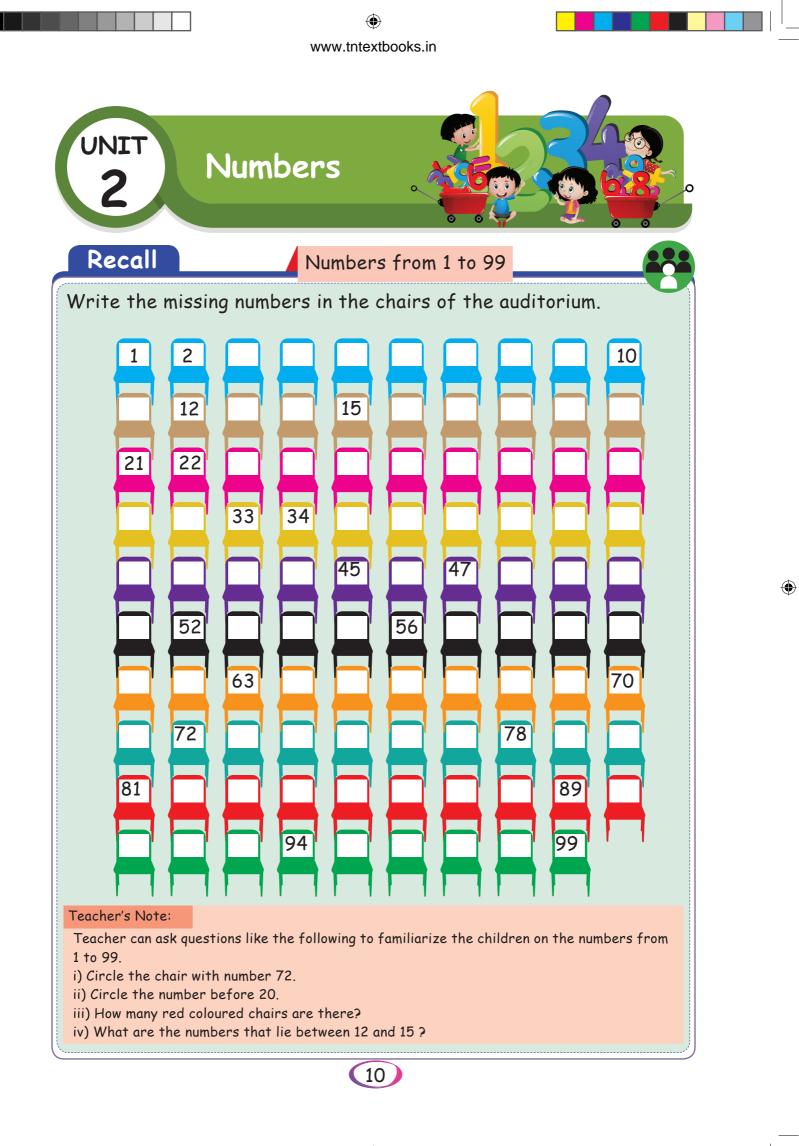
3D figures from 2D shapes

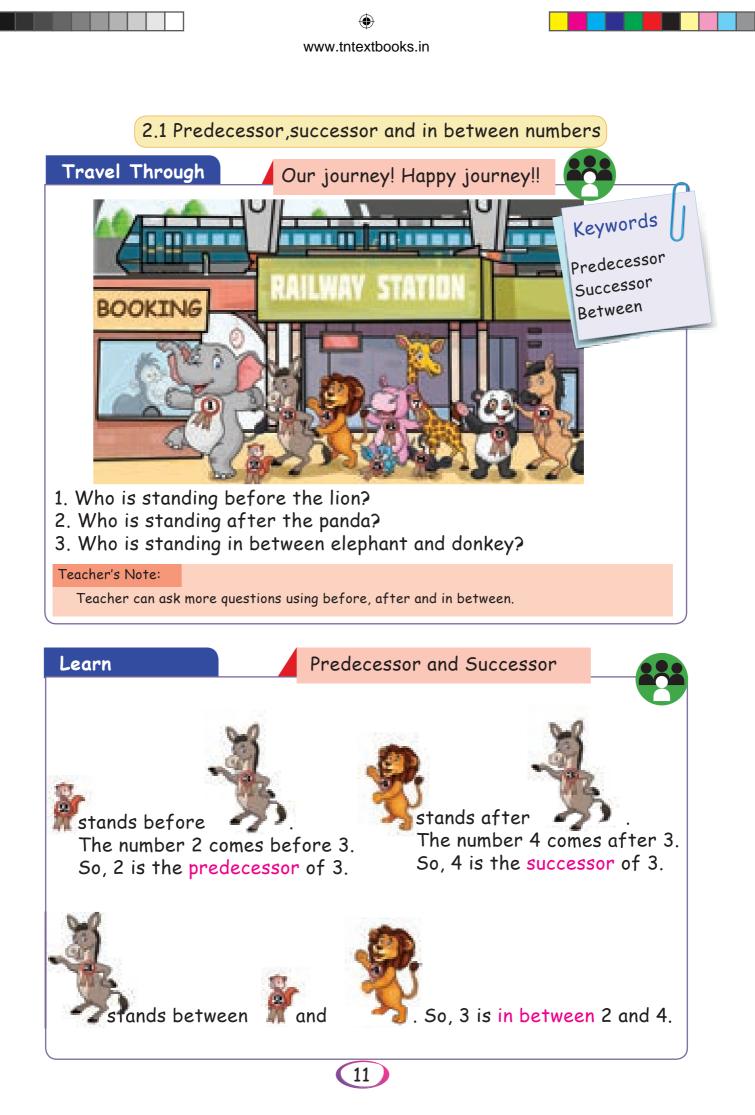
Take triangle, rectangle, circle shaped colour papers. Paste it firmly with a stick and rotate the stick. Observe the 3D figures formed from 2D shapes.











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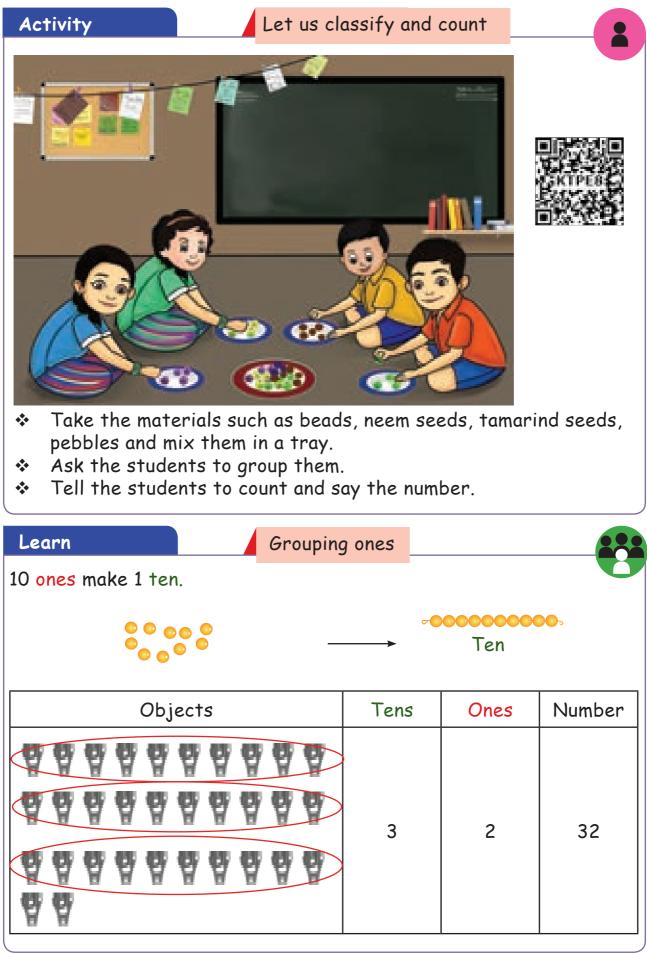
2nd std Maths 1-term Unit_2_Numbers.indd 12

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Learn Group the words that b	begin with the same let	tter and	count t	hem.
Bat Cake	Ant Car			
		Words with A, followir	B and C	-
Ape Bear	Apple Carrot	Ant	Bat	Cake
8 mg		Аре	Bear	Car
1 A A A A A A A A A A A A A A A A A A A	- En	Apple	Book	Carrot
- Xe 📈 I		Axe	3	Cat
Cat Book	Axe Cow	4		Cow 5
Group the words given write them.	below by their starting	g letter,	count a	ind
withe meni.				
• Mugil •	«Lalitha«	© N	leela®	
	• Lalitha • Nithya•			
O Mugil •			leela®	
• Mugil • • Nisha •	• Nithya•		leela® Lily®	
 Mugil Nisha Manoj 	 Nithya Lekha 		leela Lily ogeshe	
 Mugil Nisha Manoj Leena 	 Nithya Lekha Meera 		leela Lily ogeshe ary e	
 Mugil Nisha Manoj Leena Mani 	 Nithya Lekha Meera Nizam 		leela Lily ogesh ary Jazar	
 Mugil Nisha Manoj Leena Mani 	 Nithya Lekha Meera Nizam 		leela Lily ogesh ary Jazar	
 Mugil Nisha Manoj Leena Mani 	 Nithya Lekha Meera Nizam 		leela Lily ogesh ary Jazar	

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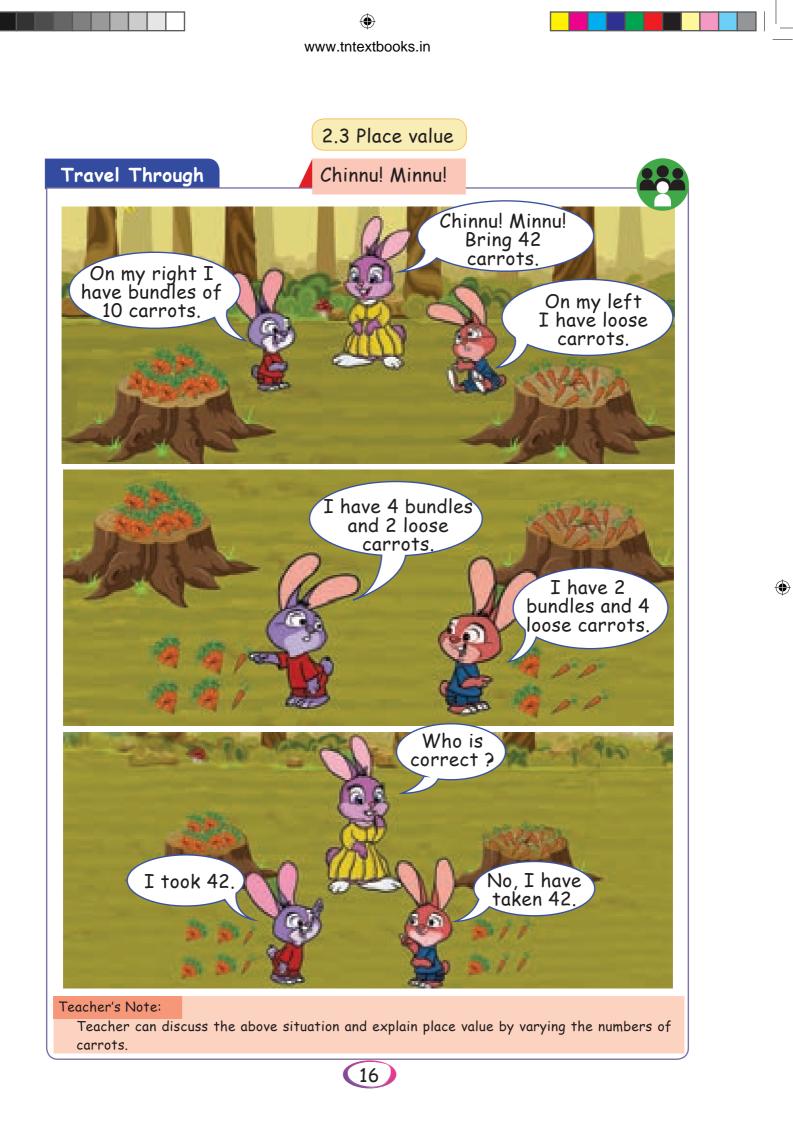
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Practice Group the objects in tens and ones and writ	e the nu	mber.	
Objects	Tens	Ones	Number
00000000000000000000000000000000000000			
000000000000			
00000000000			

15

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|_____



2nd std Maths 1-term Unit_2_Numbers.indd 16

Learn			
Let us lea above situ	rn about the place value of ation.	digits in number	using the 🔽
Number	Bundles of ten carrots	Single carrots	
42	* *	\$ \$	

The place value of digit in any number depends on its place in that number.

Practice

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Draw necklace using beads in tens and ones for the given number.

Number	Necklaces of ten beads	Single beads
24		$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$
53		
38		

Complete the empty boxes in the table given below.

3 Ones	32		
	61		
	55		
	47		
	29		
1 One	13	1 Ten	3 Ones
	58		
_	1 One	47 29 1 One 13	47 29 1 One 13

Try This Comple	ete the table							
Beads	Abacus	Numbers						
	Tens Ones 3 4	3 tens 4 Ones 30+4=34						
	Tens Ones							
	Tens Ones							
	Tens Ones	4 tens 5 Ones 40+5=45						
Activity								
 Take 2 sets of cards with numb Write the words 'Tens', 'Ones' cards in front of each word. 		d place one set of						
 Call two students to stand in the Each student should pick a number 								
The student who is standing l	Each student should pick a number card from the set. The student who is standing before 'Tens' should say "I am 2, standing at 'Tens' place. So my place value is 20" and should show							
 Next student who is standing 4,standing at 'Ones' place. So m 4 beads. So,our number is 24. T other students for different tw 	y place value is 4 Teacher continue:	", and should show s the activity with						

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Pleasure Time Colour and answer									
Colour the number boxes with blue if the values in 'Tens' place and 'Ones' place are equal.									
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	

Observe the number chart and answer the following questions.

Write the numbers with the digit 7 either in 'Ones' place or in 'Tens' place

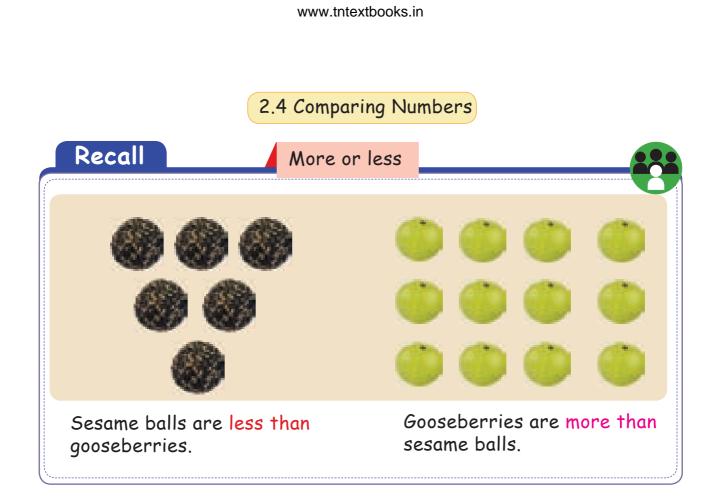
Write all the numbers with 6 in 'tens' places?

Write all the numbers with 8 in 'ones' places?

Which is the number with 9 in both 'tens' and 'ones' places?

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Learn

Compare the number of flowers.



5

Yellow pot has 9 flowers and blue pot has 5 flowers. Yellow pot has more flowers than blue pot. 9 is greater than 5. Blue pot has fewer flowers than yellow pot.

5 is less than 9.

Blue pot has 5 flowers and green pot also has 5 flowers. Both pots have equal flowers. 5 is equal to 5.



5

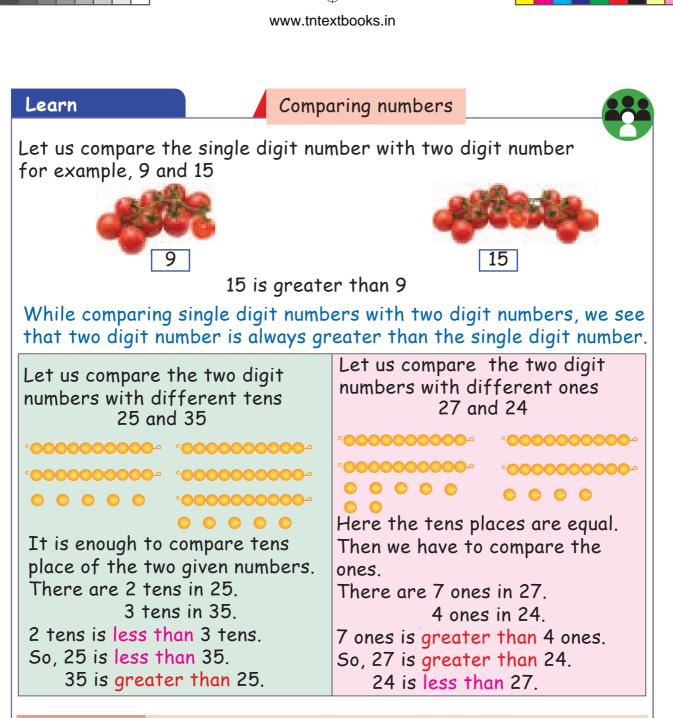
(20)

Practice

Count the objects and write the number in each of the boxes. Compare the number of objects on left and right side and circle the correct statement among the given three.

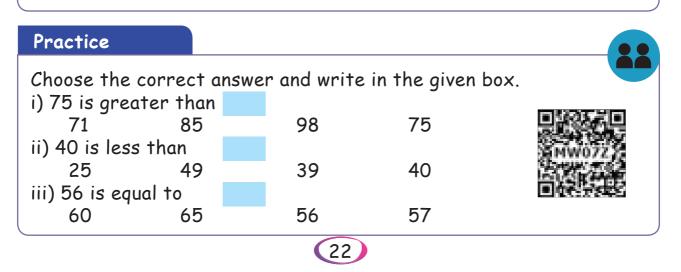
≫ ≥>> •	is greater than is less than is equal to	 ۵ ۵ ۵ 2 2
	is greater than is less than is equal to	111 111
~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	is greater than is less than is equal to	
8	is greater than is less than is equal to	7
4	is greater than is less than is equal to	4
3	is greater than is less than is equal to	9

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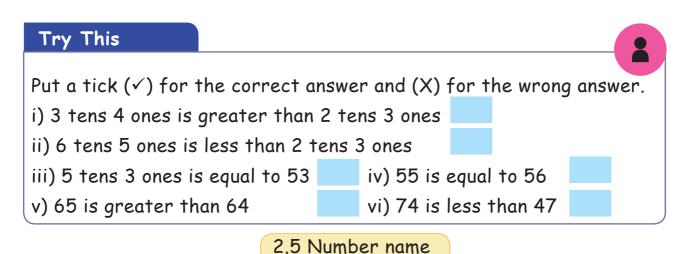


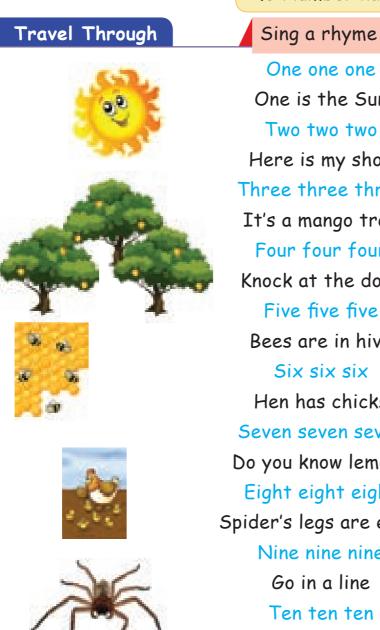
Teacher's Note:

Teacher should insist that while comparing two digit numbers with different tens place children can compare only tens place. If the tens place are the same, they need to compare the ones place.



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One one one One is the Sun Two two two Here is my shoe Three three three It's a mango tree Four four four Knock at the door Five five five Bees are in hive Six six six Hen has chicks Seven seven seven Do you know lemon? Eight eight eight Spider's legs are eight Nine nine nine Go in a line Ten ten ten We make fun





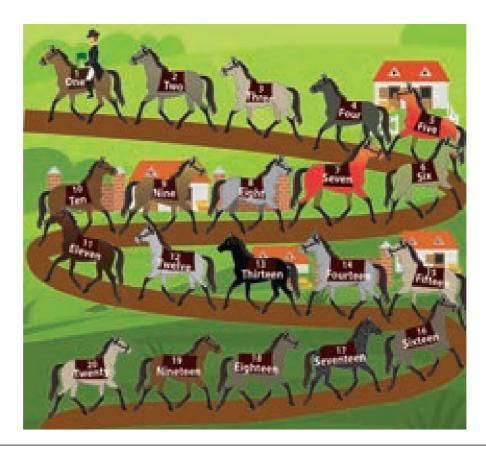


X T I A F X A A A

(23)

Learn

A soldier takes his 20 horses for a parade. Observe the numbers and number names in the horses.



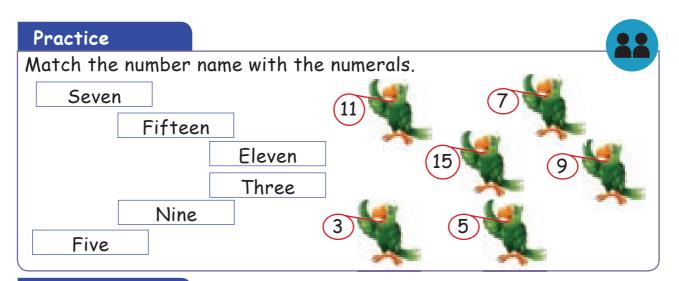
Practice

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Write the number names against the numbers and complete the table.

Numeral	Words	Numeral	Words
1		11	
2		12	Twelve
3	Three	13	
4		14	
5		15	
6		16	
7		17	
8		18	
9		19	
10		20	Twenty





Find and circle the number names 11-20 hidden in the box.	
Ê T G H T E E N O E	
L P S I X T E E N O	
E O U F Q R T E E U	
V A N I R S T U V R	
E M N F W X Y Z A T	
N P S T W E L V E E	
S E V E N T E E N E	
N I N E T E E N W N	
T W E N T Y G M N O	
R T H I R T E E N P	

Activity

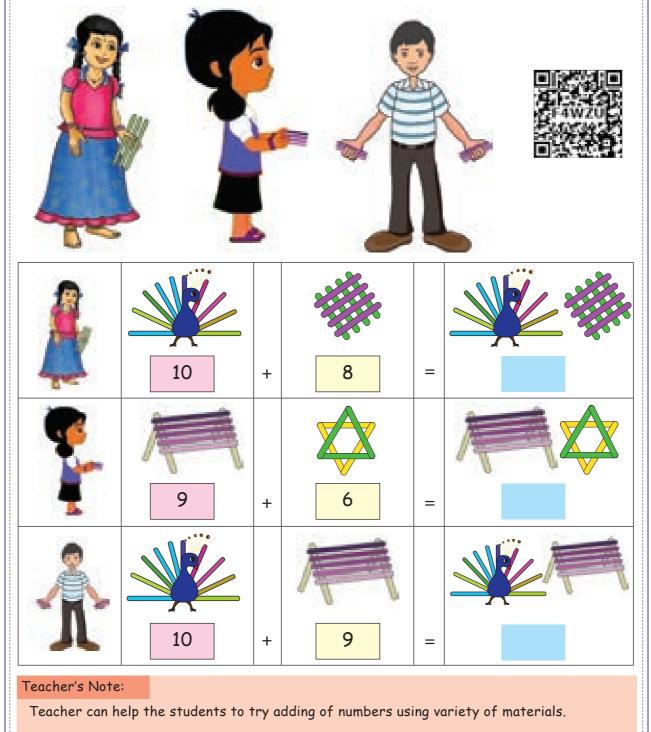
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Find the number name

- Take some tamarind seeds and cards with number name from one to twenty.
- Teacher shall call two children and whisper a number into the ear of the first child.
- He / she will pick the tamarind seeds according to the count said by the teacher and pass it on to his partner (without revealing the number).
- The partner will count the seeds and pick the number name card for that number. Teacher will check if the said number name and the whispered number are the same.
- The teacher will continue the game until every child of the class is familiar with number names upto twenty.

2.6 Addition

Kanmani, Asha and Prashanth used ice sticks for their craft work. Find the total number of sticks used by each of them from the picture given below and write them in the blue box.

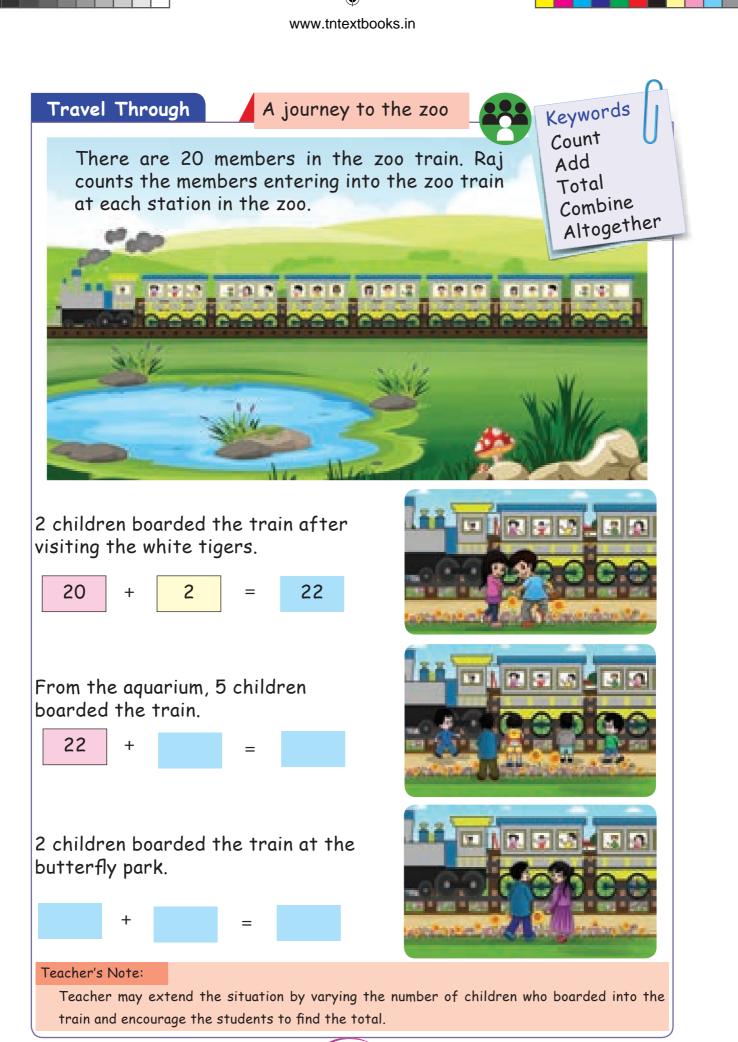


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Recall

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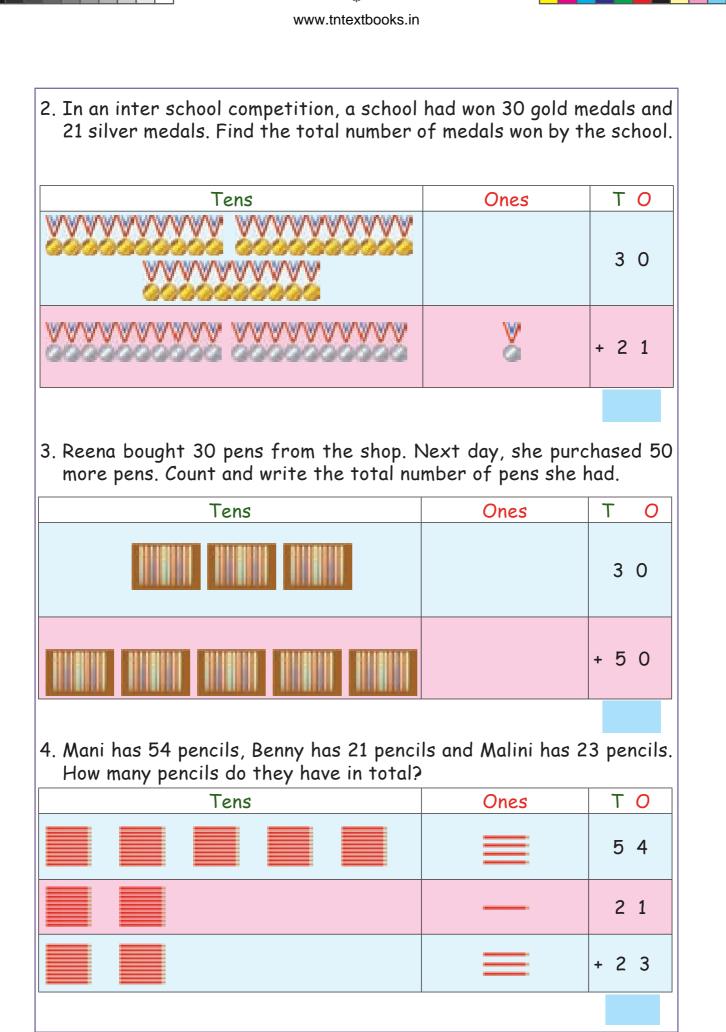
	\odot				
	www.tntextbooks.in				
Learn	Addition				
	2 lemons and Kannan bou is bought by them.	ıght	5 lemons. Find	the	total
	Tens		Ones	Т	0
	🎯 🎯		••	3	2
			99999	+	5
				3	7
	guavas, Jesi plucked 33 i pluck altogether?	gua	vas. How many	guav	۵۶

ala Abi una Jesi plack unogerner?		
Tens	Ones	ΤO
		24
and	.	+ 3 3
		57

1. A balloon seller has 23 pink balloons and 4 yellow balloons. How many balloons did he has totally?

Tens	Ones	ΤO
3085 3085	•••	23
	100	+ 4

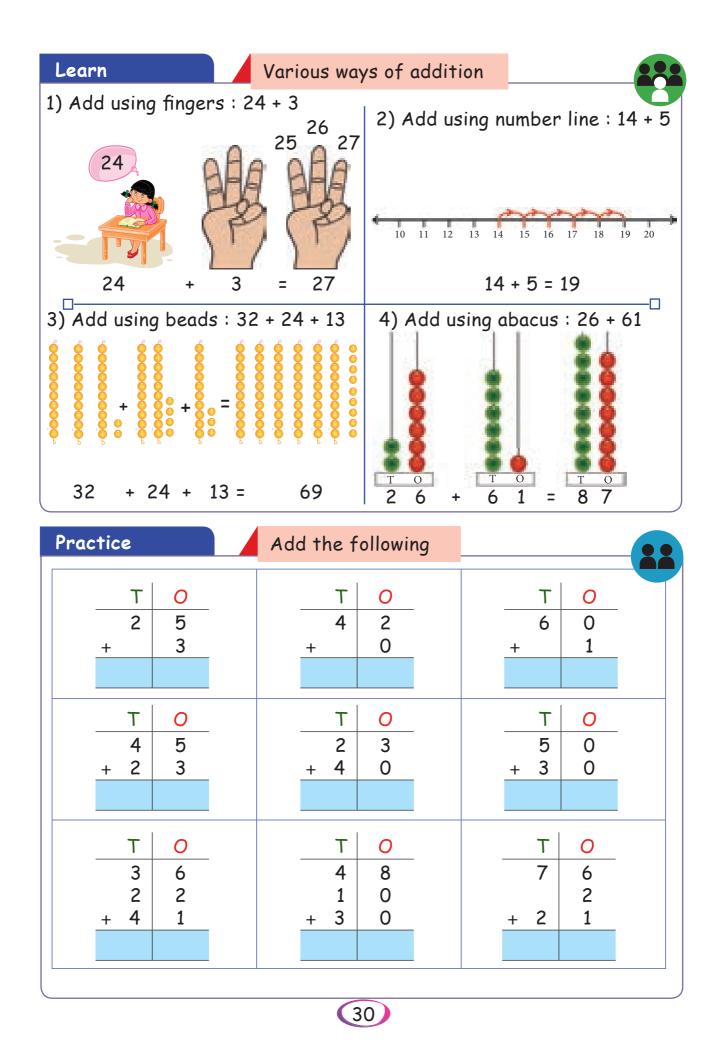
+



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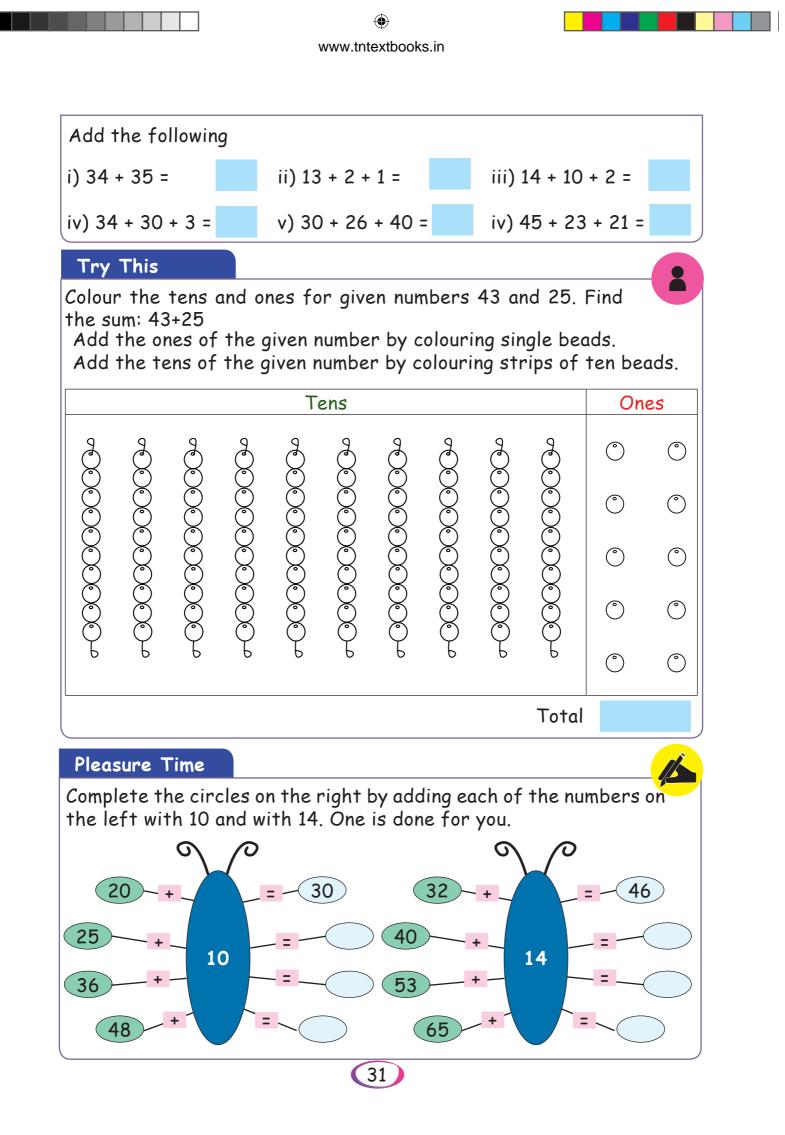
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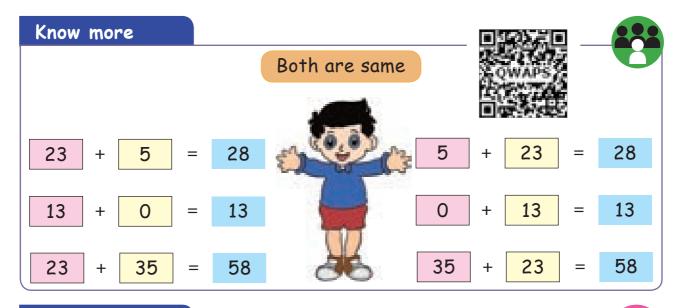
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Activity

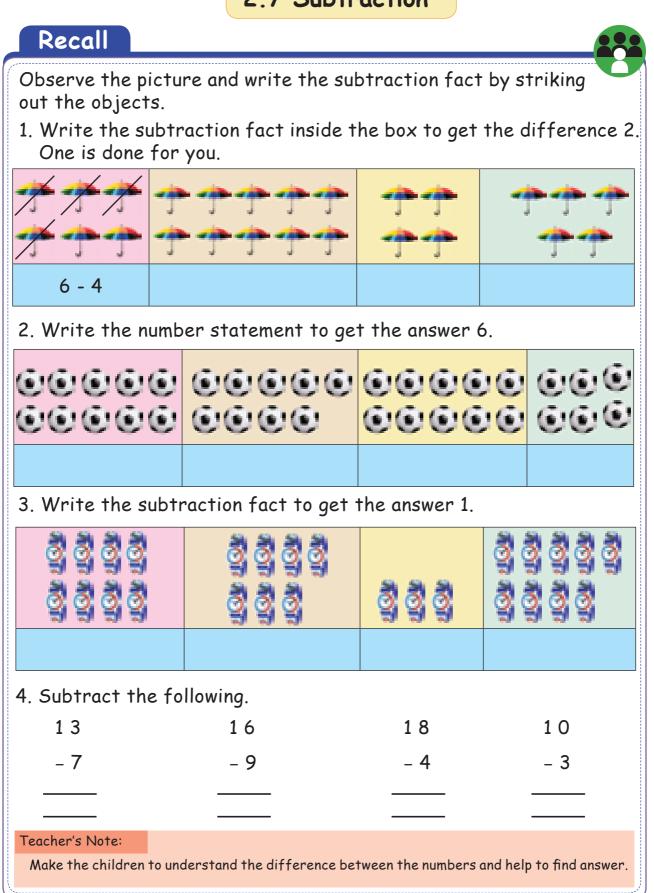
- Divide the class into 2 groups and give 100 sticks (bundles of 10 sticks and few single sticks) to each group.
- Teacher shall give two numbers to add. For example, 42 and 56
- The first group shall take 40 + 2 sticks and the second group shall take 50 + 6 sticks.
- Both the groups shall combine the sticks. Count the bundles of sticks and single sticks separately and find the total.
- Teacher can instruct the groups to add the single sticks first, write the number below the ones place and then add the bundle of sticks and write the number below the tens place.

Mental Maths

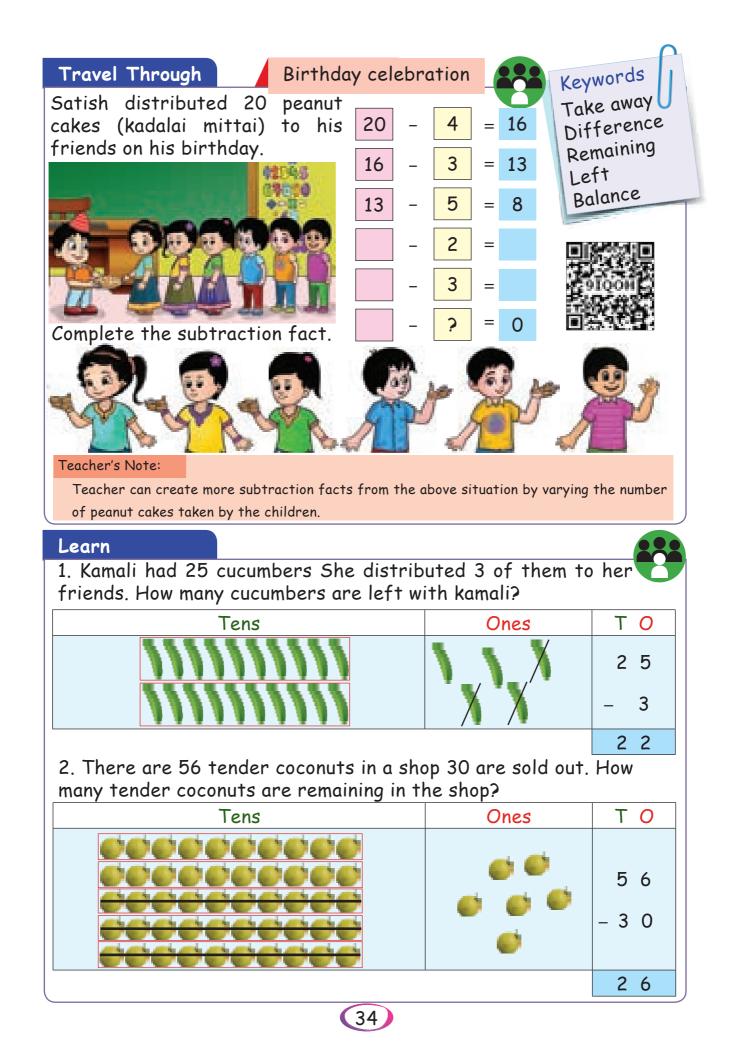
- 1. 30 children are lined up to jump using a skipping rope. If 20 more children join them, how many children are there in total?
- 2. In a park, Suji counted 12 children and 15 adults. How many people did she count in total?
- 3. A fisherman caught 22 fishes in the morning and 12 fishes in the afternoon. How many fishes did he catch totally?
- 4. There are 15 boys and 24 girls in a class room. How many students are there altogether?
- 5. In a bird sanctuary, there are 33 parrots and 15 peacocks. How many birds are there in total?

20+30

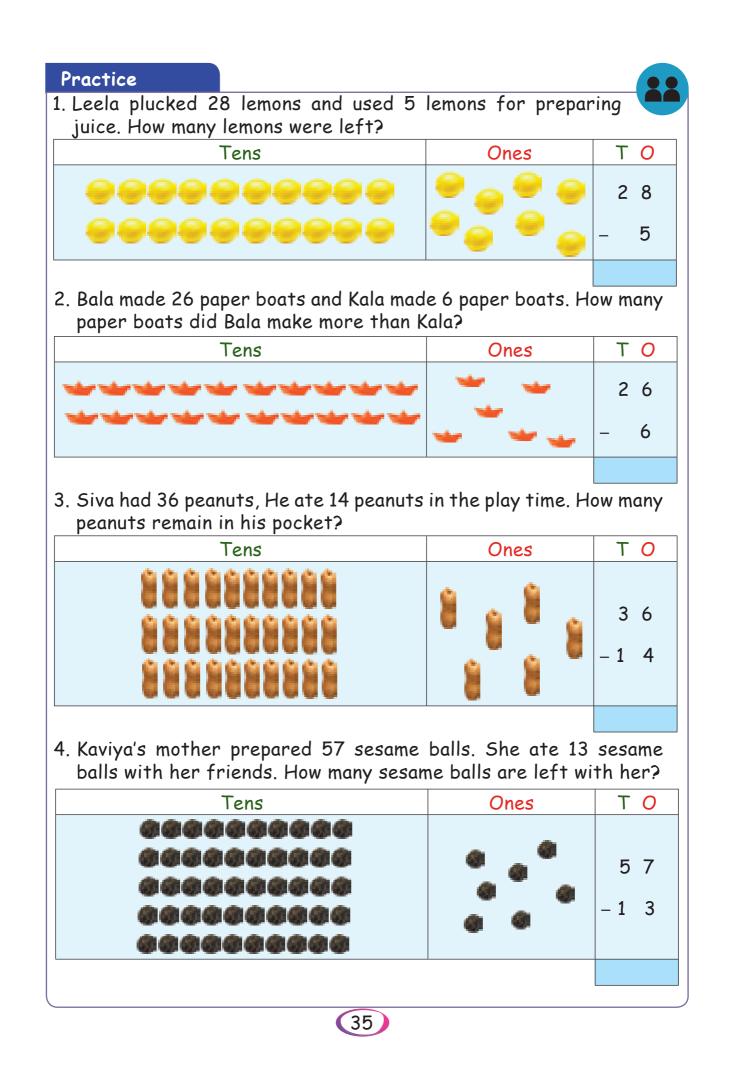
2.7 Subtraction



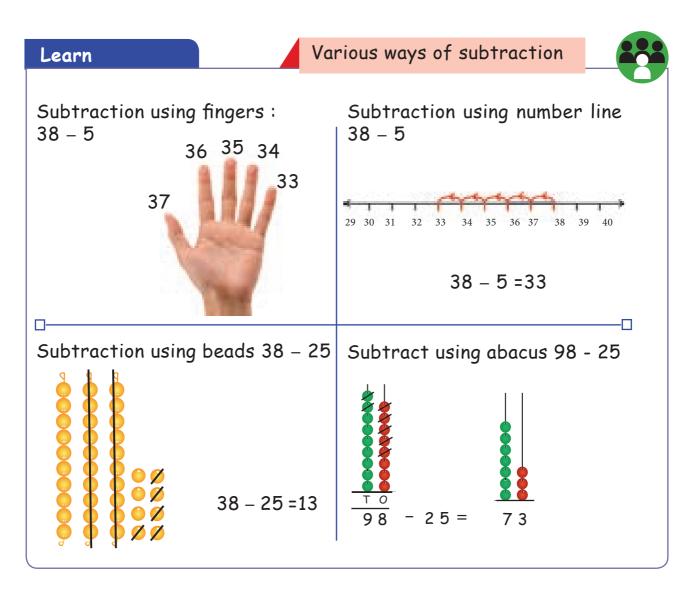
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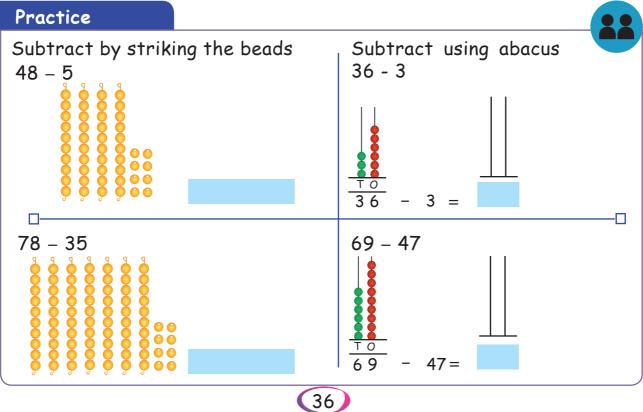


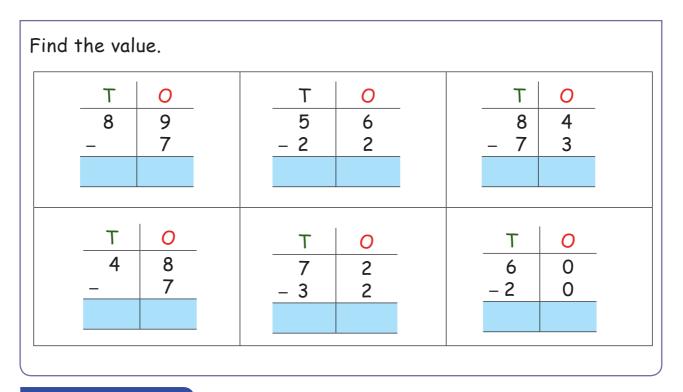
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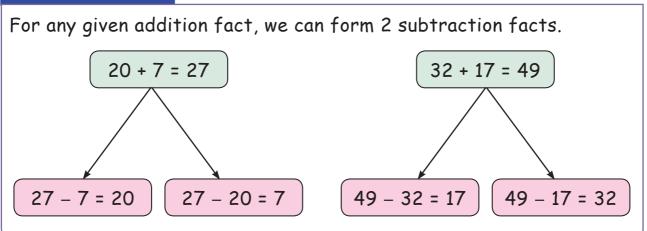






Know More

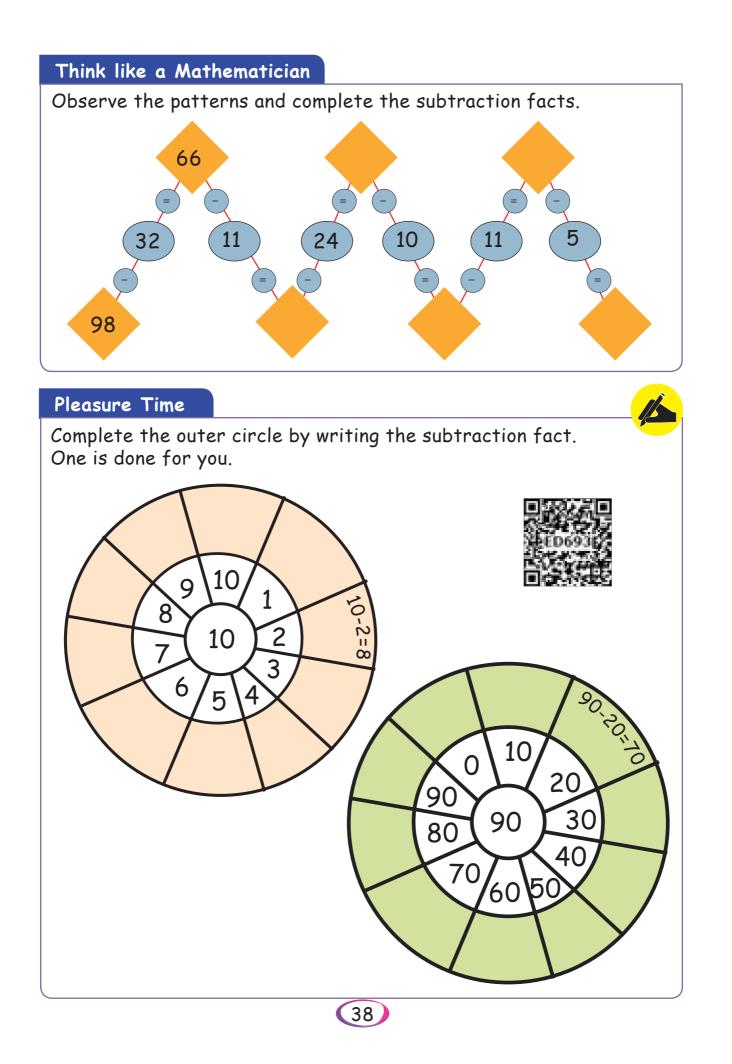
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Activity

- Teacher shall divide the class into groups of two members and place 9 bundles of 10 sticks in a box and 9 single sticks in a box.
- Teacher shall write a subtraction fact on the board and call one group to find the answers.
- One member should pick up the bundle of tens and other member should pick up the loose sticks according to the number.
- They shall subtract the numbers by putting the bundles and loose sticks back in box and then show the bundles and loose sticks left with them.
- Teacher can continue the activity with other children.

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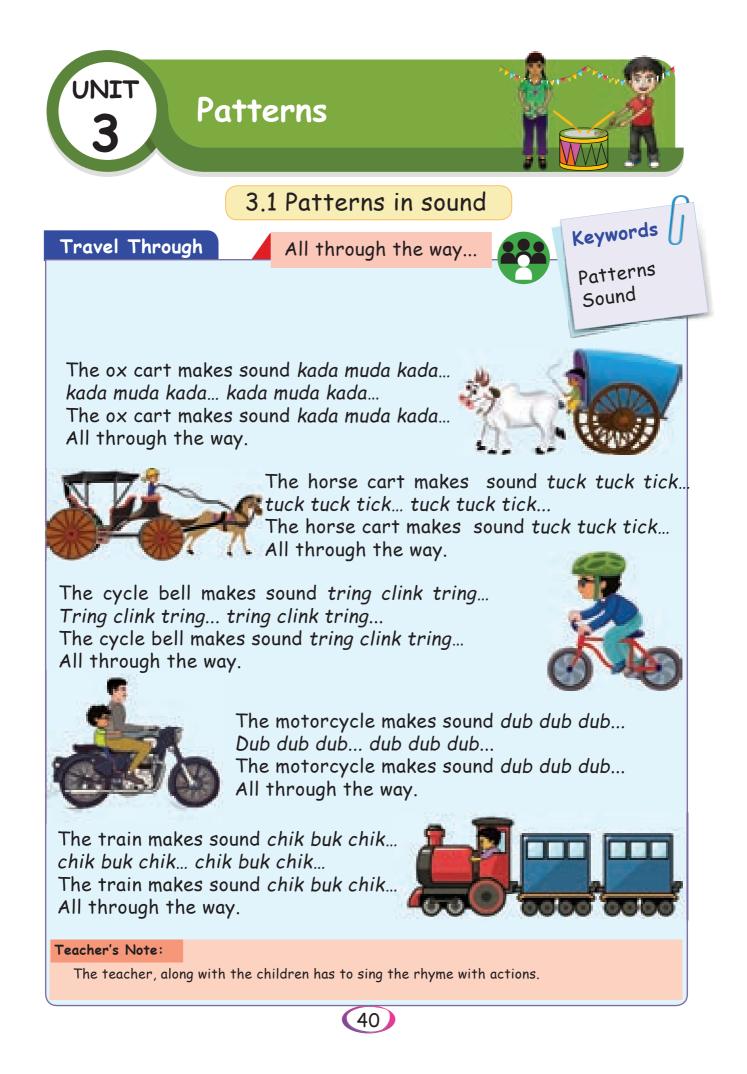
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Try This	•
Find the answer for the subtract	ion facts given below. 🥄 🥊
Subtraction fact	Answers
37 - 30	
46 - 41	
68 - 54	
70 – 70	
57 - 42	
21 - 0	
39 – 20	
Create more subtraction facts us 21, 30, 37, 39, 41, 42, 46, 54, 57,	
Subtraction fact	Answers

Mental Maths

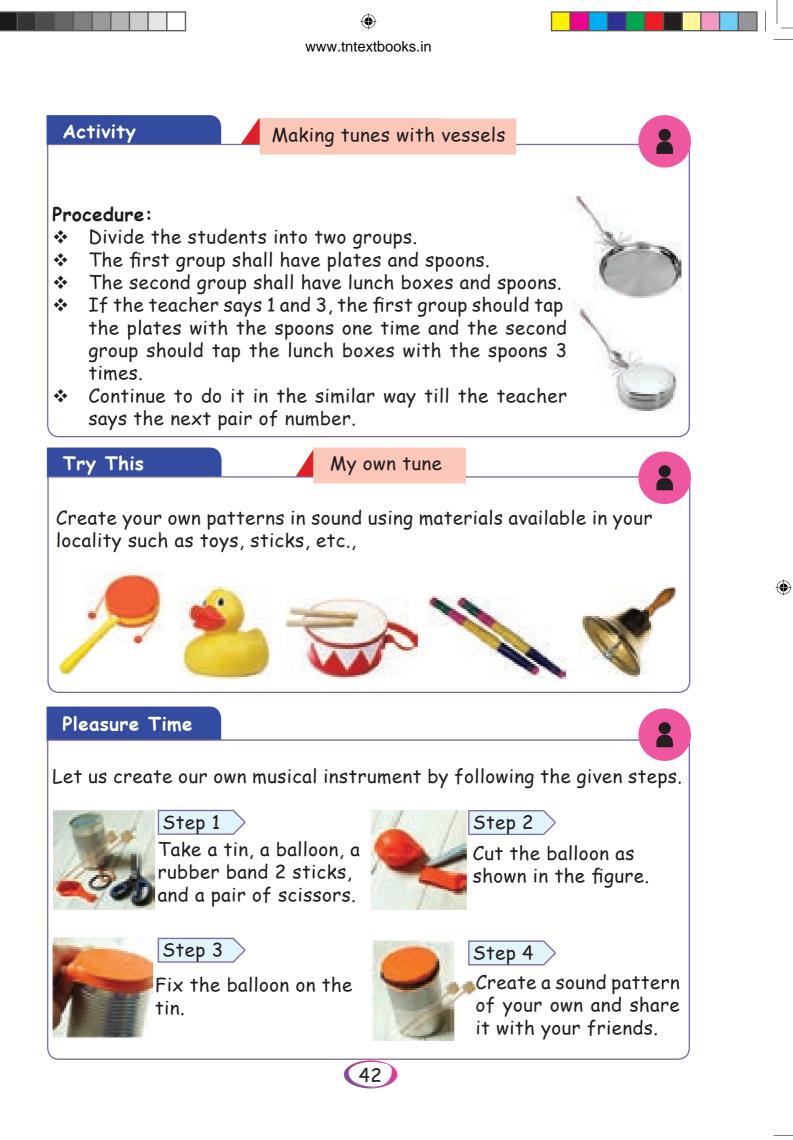
- 1. Ilakiya made a bouquet with 29 flowers. As she was arranging the bouquet, 12 flowers fell off. How many flowers were left in the bouquet?
- 2. There are 19 children in the park. 2 of them went out of the park. How many children are inside the park?
- 3. There were 33 birds in the garden. 11 flew away. How many birds were left in the garden?
- 4. There are 64 goats in a farm. 11 of them were taken to another farm. How many goats are left?
- 5. There are 38 paint brushes in the box. 10 brushes are used. How many brushes are unused?

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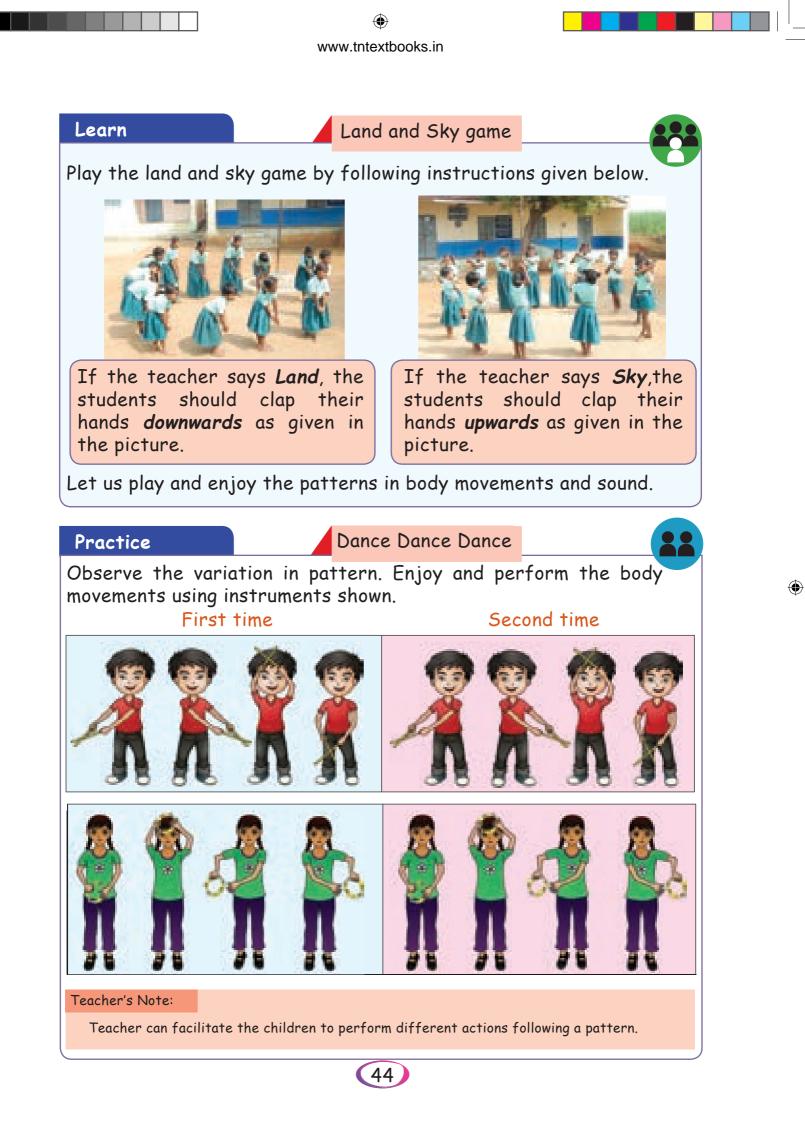
Observe the picture and discuss.

- 1. What do you see in above picture?
- 2. On which occasion this type of dance is performed?
- 3. What type of sound is the base of kummiyattam?

Teacher's Note:

Teacher can play *kummi* or *kollatam* song to facilitate the children to make patterns by combining body movements and sound.

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Know more

Combined patterns of sound and body movements are used in dance forms like Karagattam, Oyilattam and Bharatham.



3.3 Patterns in colours Travel Through In a Jungle

Teacher's Note:

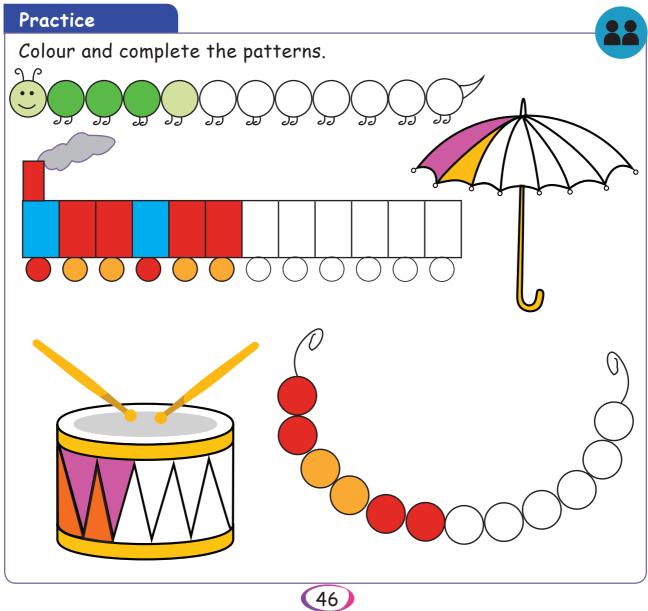
Teacher can encourage the children to observe the colour patterns of animals in the above picture. Motivate them to tell about the observed patterns.



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Try This

Collect the things with colour patterns seen in your surroundings. Discuss about the patterns in them.

Know more

Patterns in colours are seen in dress, rangoli, decoration and painting.



Activity

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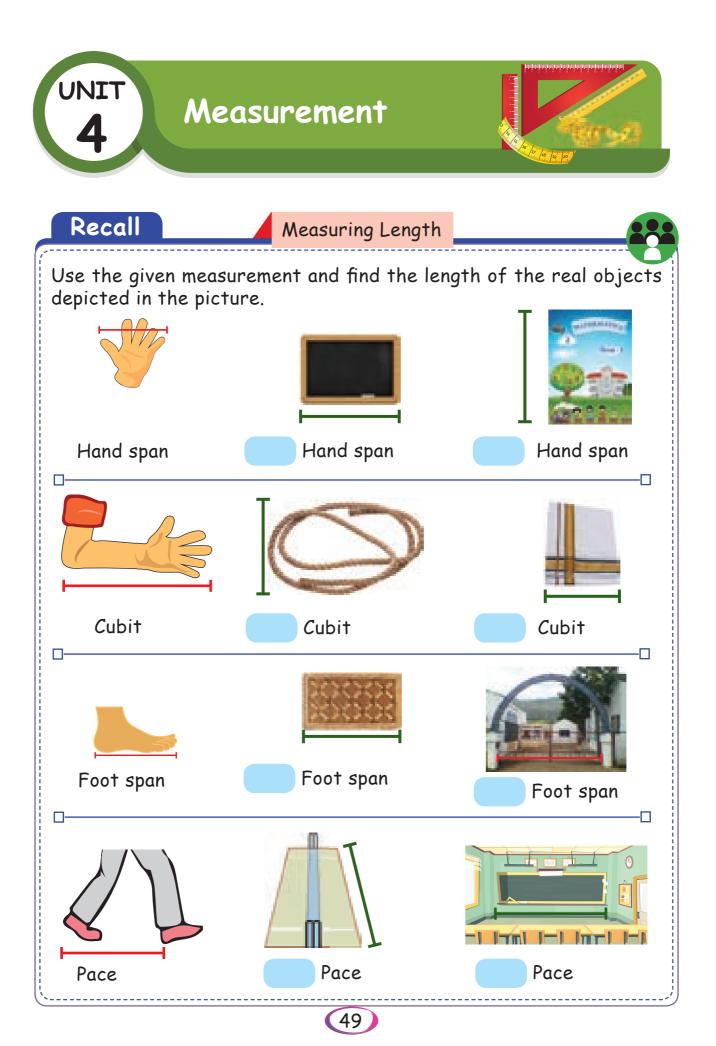
Plait a bunting

Prepare a bunting by pasting colour papers of different colours in a pattern as shown below.



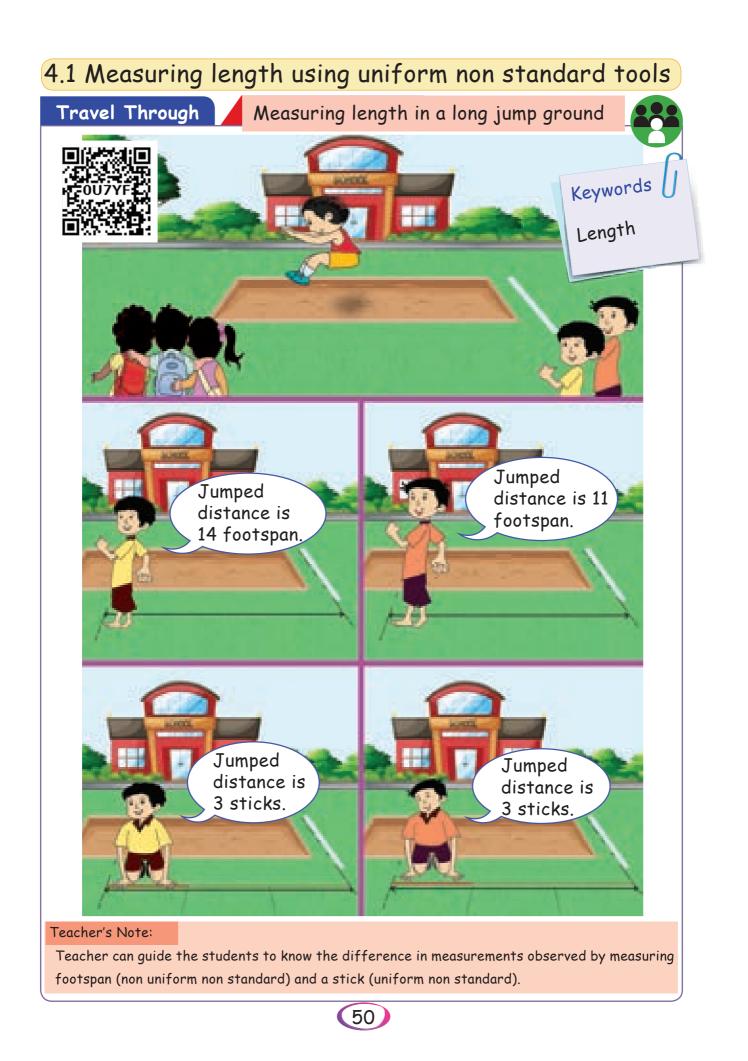






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51

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Objects to be measured	Measuring tool	Guess value	Measured value
	Sharpener		
	Colour pencil		

by actual measurement using non standard tools.

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Try This		
•	tch the length of the objects write the count inside the cir	
 Which two objects have Which is the longest ob What is the total lengt 	oject? h of the pencil and crayon? r than the pencil? If yes, by l	
Think Like A Mathemati	cian	
the brim of the round tab		
	Measuring tools	5
Å	XC	\mathbf{D}
	53	

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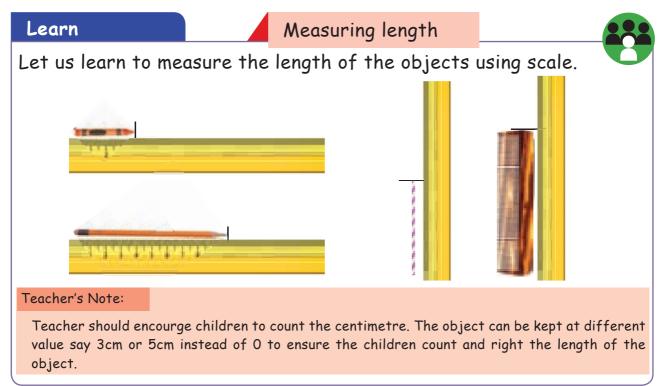




2nd std Maths 1-term Unit_4.indd 54

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Practice		
Tick (✓) the appropriat	e unit to measure the	following objects.
Object	Metre	Centimetre



55

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Practice	
Observe the pictu objects. One is do	re in previous page and write the length of the the ne for you.
The second second second	Length of the comb is <u>12</u> cm.
	Length of the straw is cm.
	Length of the pencil is cm.
	Length of the crayon is cm.

Activity

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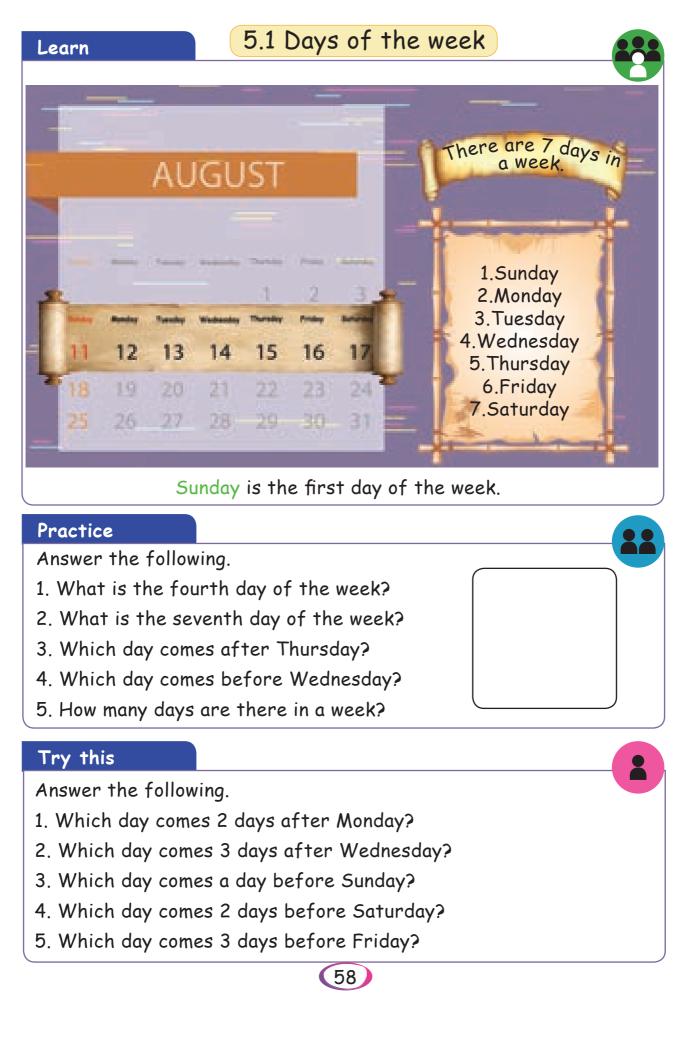
Fill in the boxes by measuring the length of the objects using handspan, eraser and centimetre scale.

Objects to be measured	ERASER	(Anternet of the state

Teacher's Note:

- i. Teacher can make the students to measure various objects in the surrounding by guessing and by actual measurement.
- ii. Enable the students to appreciate the need for standard tool for measuring length.





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Try This			Tir	ne [.]	table of a	clas	ss 2
Period Day	1		2		3		4
Monday	Tamil		Maths		English		Singing
Tuesday	English	a	EVS	eak	Maths	۵	Art and Craft
Wednes- day	EVS	Interval	Tamil	Lunch break	English	Interval	Drama
Thursday	Tamil		Maths		EVS		Computer
Friday	Maths		English		Tamil		Yoga

Observe and fill in the table.

Conducted on which day?

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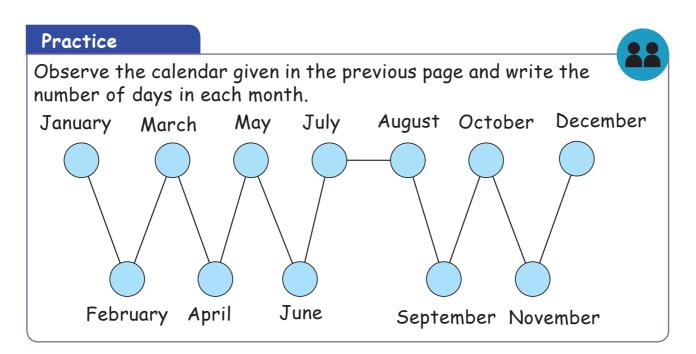
5.2 Months of the year **Travel Through** Keywords July January August February January September February March October November April 7 4 9 10 11 12 14 15 18 17 18 19 25 22 25 24 25 26 28 29 30 31 December May 11 June June March May April 12 13 14 15 16 28 28 28 36 27 38 28 10 11 12 13 17 18 19 20 24 25 36 27 10 10 14 - 20 12 10 81 13 144 11 日本 58 18 25 26 20 2.2 33 24 22 October August July September 2 1 4 1 4 9 10 11 12 13 16 17 18 19 20 21 24 25 26 27 20 28 ÷ 4 -10 11 12 11 14 10 14 15 16 17 36 31 32 35 36 37 38 38 38 38 12 -17 -10 30 21 22 22 24 24 December November 1 22 2 12 13 14 11 T. 18 28 21 12 14 There are 12 months in a year. * January is the first month of a year and December is the last * month of a year. January 1 is the first day in a year. There are 7 months with 31 days and 4 months with 30 days. * * February month has either 28 or 29 days. Teacher's Note: Teacher can discuss the festivals celebrated in each month to motivate the children to know the months in a year.

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(60)



Practice

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Write the names of the months in order in the following table.

	Months	
1	7	
2	8	
3	9	
4	10	
5	11	
6	12	

Pleasure Time		
Match the following.		
Festival		Month
Republic Day	REPUBLIC DAY	November
Independence Day	mpaneo	January
Teacher's Day	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	August
Children's Day	Children's Day	September
	6	1



Fix the names of the months in each knuckle as shown in the figure. The months represented by each knuckle has 31 days and the spaces in between have 30 days. But, February has either 28 or 29 days.







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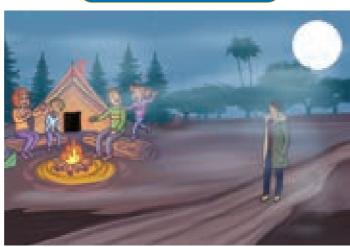


March, April, May, June

July, August, September, October



WINTER MONTHS



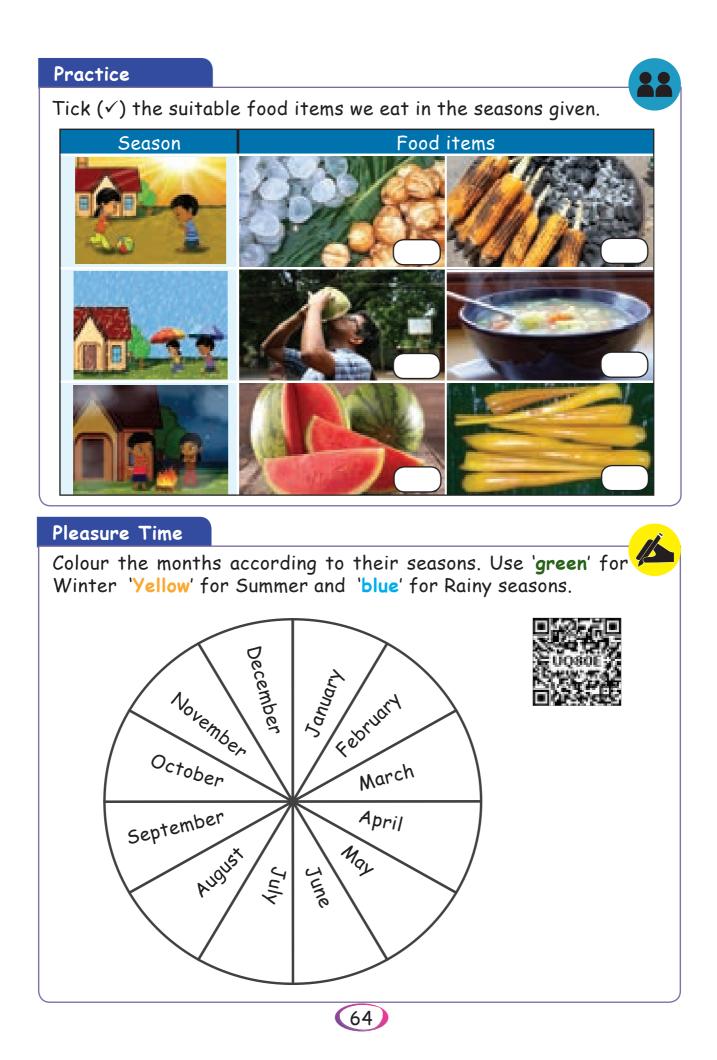
November, December, January, February

Game

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Procedure

- 1. Teacher can prepare picture cards depicting seasons. (Example: Walking with an umbrella)
- 2. Select a student at random and tell him/her to pick a picture card.
- 3. Now, the student should explain the picture card by mono acting.
- 4. Other students must find out the action and tell the relevant season acted by the student.



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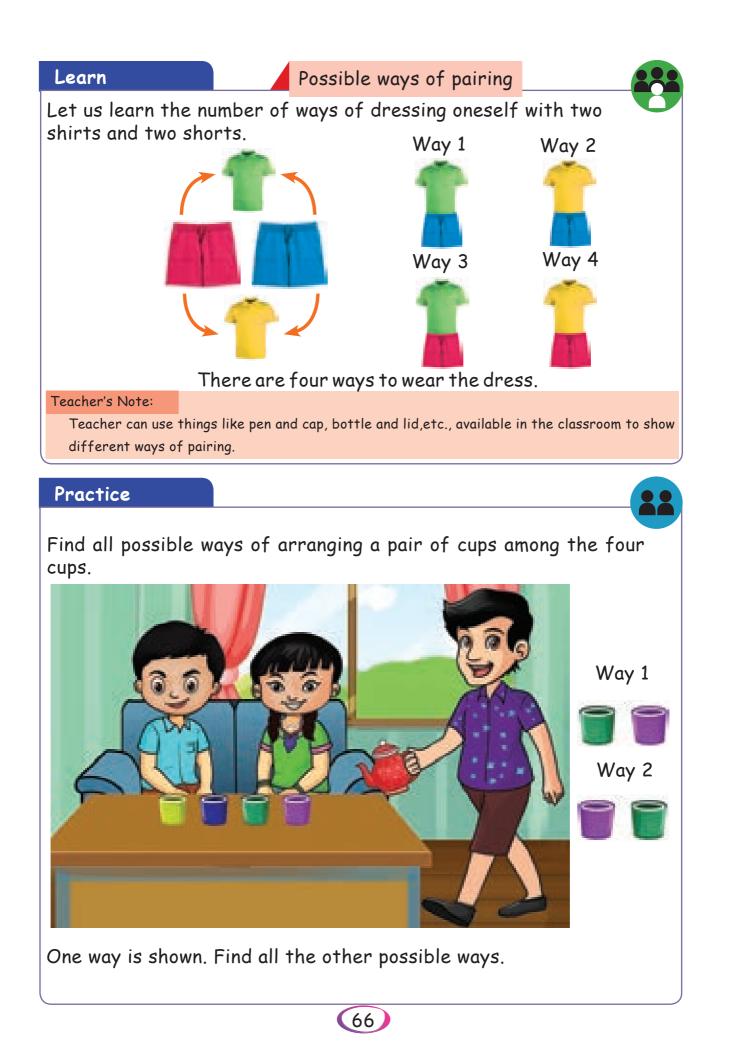
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۲ www.tntextbooks.in UNIT Information Processing 6.1 Systematic listing Keywords Systematic list Travel Through Pair Arun wants to reach the school from his house. Way One way is shown for you. List down all the other possible ways. Hh

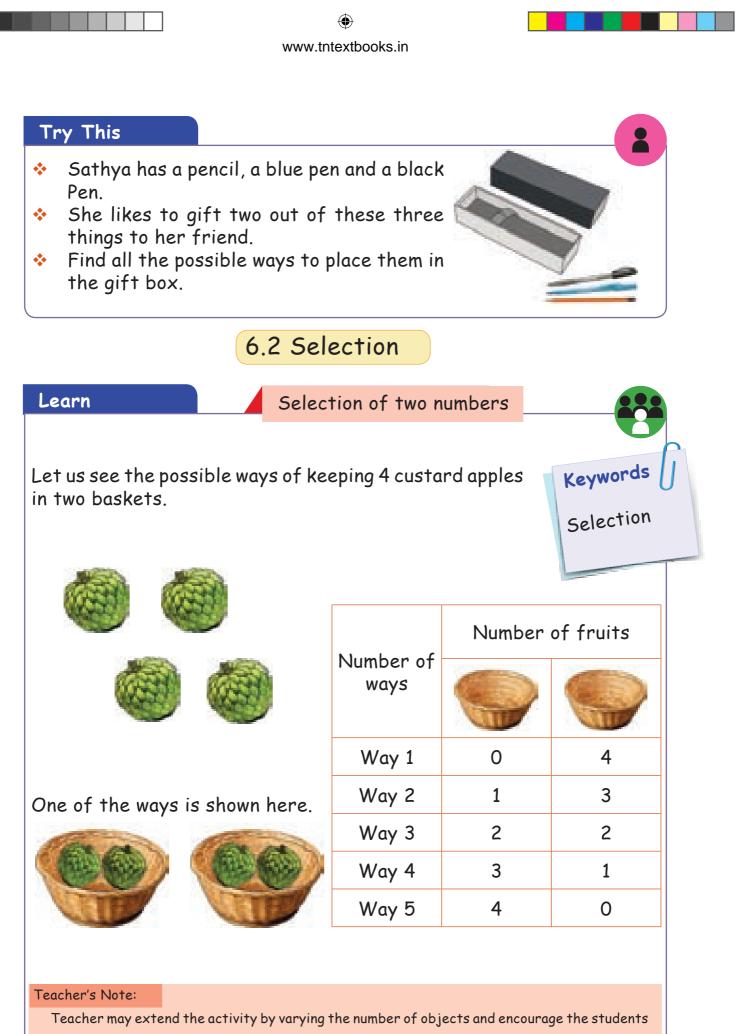
Teacher's Note:

Teacher may explain one way shown in the picture and let the children discuss about other possible ways.

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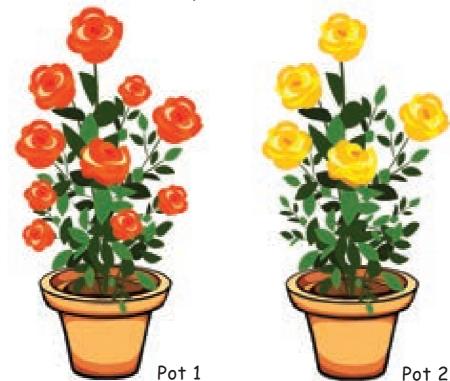
to find all the possible ways.

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Practice

There are two pots, one with 10 red roses and another with 5 yellow roses in the garden. List down all the possible ways of choosing ten flowers from the pots.



Ways	Flowers Pot 1	Flowers Pot 2	Total
Way 1	10	0	10
Way 2			10
Way 3			10
Way 4			10
Way 5			10
Way 6			10

Teacher's Note:

Teacher can extend the same activity and encourage the students to find the number of ways of getting the sum as 11, 12 and so on .

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6.3 Collection of Data

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Travel Through Collection of data through measurement.

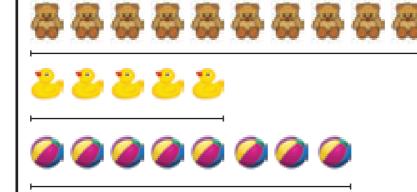
Keywords

Abishek and his father visit a toy shop. His father promises to buy him a toy if he answers the questions correctly. Can you help him?



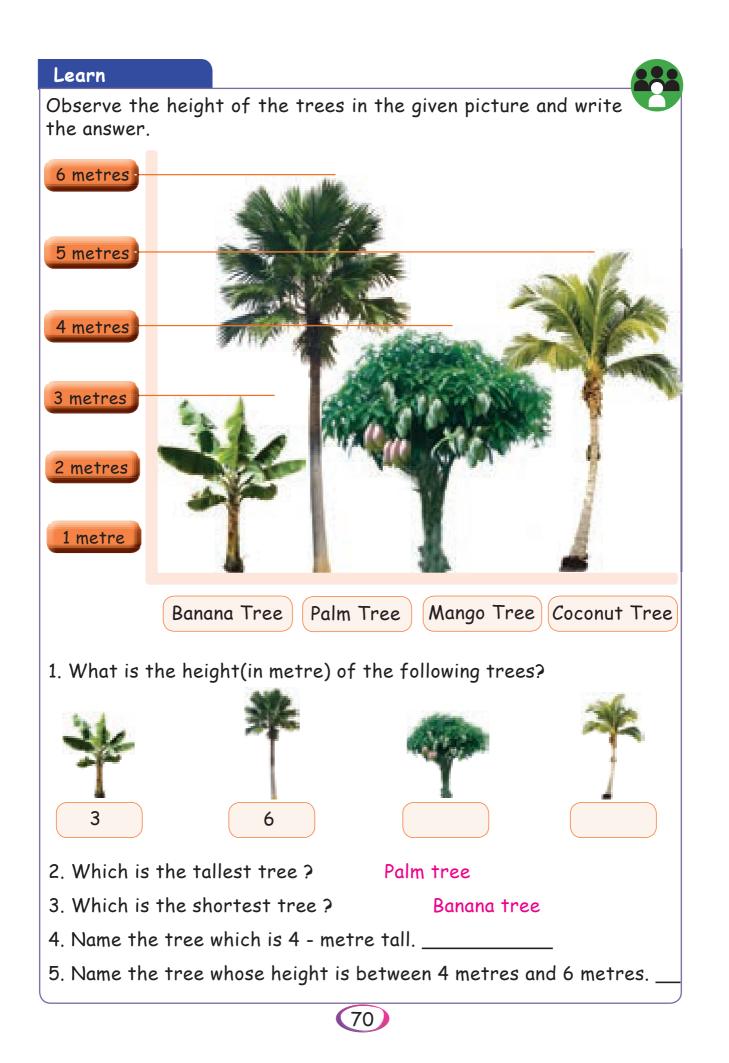
To find the answer, Abishek groups the toys as shown below.





Speak Out:

- 1. Which toy is most in number? How many is that item?
- 2. Which toy is found to be least in the shop?
- 3. Can you place the rocket and lorry toys in the same shelf? Discuss.



Children group	themselves to take part in three o	different games.
Running race		
Walking race		
Frog race		
	bove picture and answer the follow	
Observe the a	bore pierdi e ana anower me fener	ving question:
1. How many	students like to take part in Walk	•
1. How many Boy: 2. How many	students like to take part in Walk s Girls. v students like to take part in Frog	ing race?
1. How many Boy: 2. How many Bo	students like to take part in Walk s Girls.	race?
1. How many Boys 2. How many Bo 3. How many Bo	students like to take part in Walk s Girls. v students like to take part in Frog ys Girls. v students like to take part in Runn bys Girls.	ing race? race? ing race?
1. How many Boys 2. How many Bo 3. How many Bo 4. Which ga	students like to take part in Walk s Girls. v students like to take part in Frog ys Girls. v students like to take part in Runn	ing race? race? ing race? f children?
 How many Boys How many Bo How many Bo How many Which ga How many 	students like to take part in Walk s Girls. y students like to take part in Frog ys Girls. y students like to take part in Runn hysGirls. me is played by maximum number o	ing race? race? ing race? f children? ice and Frog race?

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