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**GOVERNMENT OF TAMIL NADU** 

# 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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## THE NATIONAL ANTHEM

Jana-gana-mana-adhinayaka jaya he Bharata-bhagya-vidhata. Punjaba-Sindhu-Gujarata-Maratha-Dravida-Utkala-Banga Vindhya-Himachala-Yamuna-Ganga Uchchhala-jaladhi-taranga Tava subha name jage, Tava Subha asisa mage, Gahe tava jaya-gatha. Jana-gana-mangala-dayaka jaya he Bharata-bhagya-vidhata Jaya he, jaya he, jaya he,

- Rabindranath Tagore.

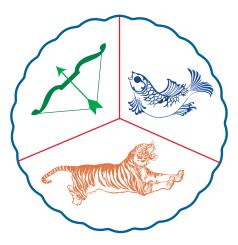


# தமிழ்த்தாய் வாழ்த்து

நீராருங் கடலுடுத்த நிலமடந்தைக் கெழிலொழுகும் சீராரும் வதனமெனத் திகழ்பரதக் கண்டமிதில் தெக்கணமும் அதிற்சிறந்த திராவிடநல் திருநாடும் தக்கசிறு பிறைநுதலும் தரித்தநறுந் திலகமுமே! அத்திலக வாசனைபோல் அனைத்துலகும் இன்பமுற எத்திசையும் புகழ்மணக்க இருந்தபெருந் தமிழணங்கே! தமிழணங்கே!

உன் சீரிளமைத் திறம் வியந்து செயல் மறந்து வாழ்த்துதுமே! வாழ்த்துதுமே! வாழ்த்துதுமே!

் 'மனோன்மணியம்' பெ. சுந்தரனார்.

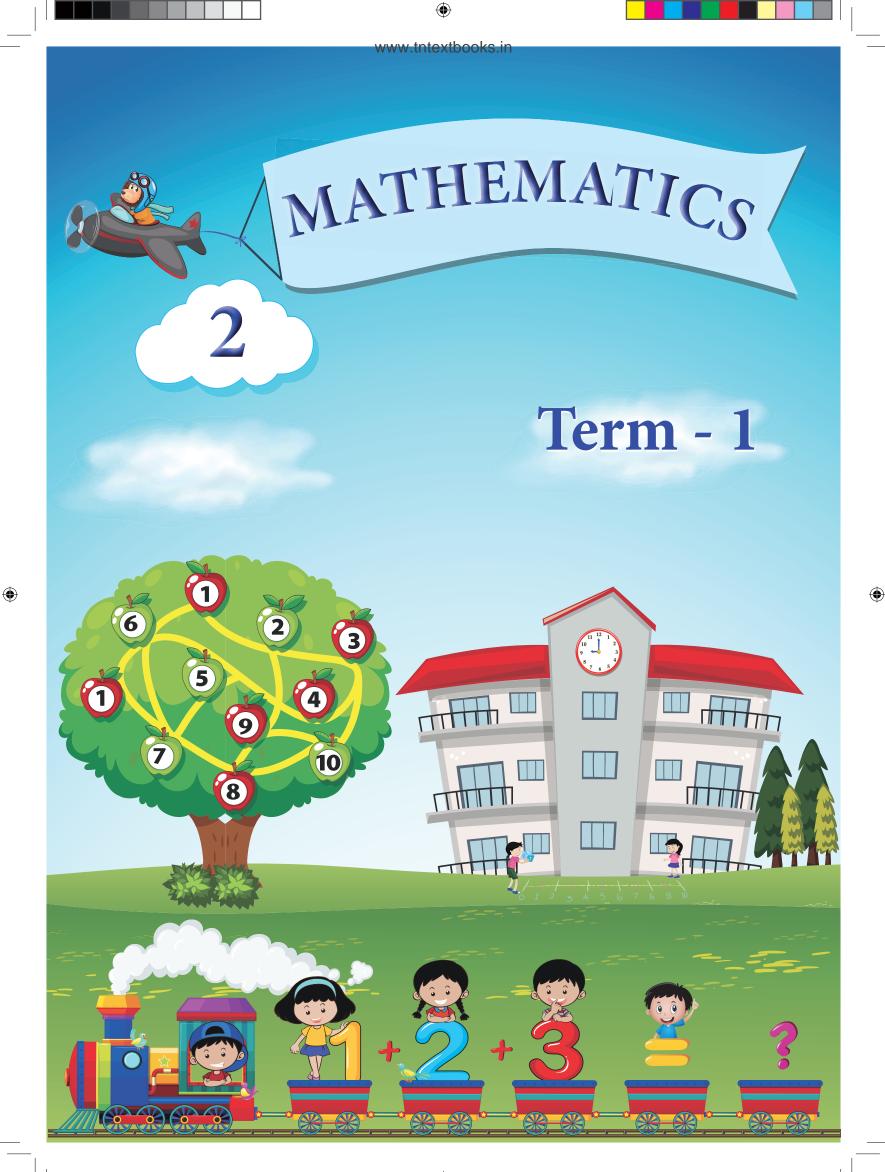


### தமிழ்த்தாய் வாழ்த்து – பொருள்

ஒலி எழுப்பும் நீர் நிறைந்த கடலெனும் ஆடையுடுத்திய நிலமெனும் பெண்ணுக்கு, அழகு மிளிரும் சிறப்பு நிறைந்த முகமாகத் திகழ்கிறது பரதக்கண்டம். அக்கண்டத்தில், தென்னாடும் அதில் சிறந்த திராவிடர்களின் நல்ல திருநாடும், பொருத்தமான பிறை போன்ற நெற்றியாகவும், அதிலிட்ட மணம் வீசும் திலகமாகவும் இருக்கின்றன.

அந்தத் திலகத்தில் இருந்து வரும் வாசனைபோல, அனைத்துலகமும் இன்பம் பெறும் வகையில் எல்லாத் திசையிலும் புகழ் மணக்கும்படி (புகழ் பெற்று) இருக்கின்ற பெருமைமிக்க தமிழ்ப் பெண்ணே! தமிழ்ப் பெண்ணே! என்றும் இளமையாக இருக்கின்ற உன் சிறப்பான திறமையை வியந்து உன் வயப்பட்டு எங்கள் செயல்களை மறந்து உன்னை வாழ்த்துவோமே! வாழ்த்துவோமே! வாழ்த்துவோமே!





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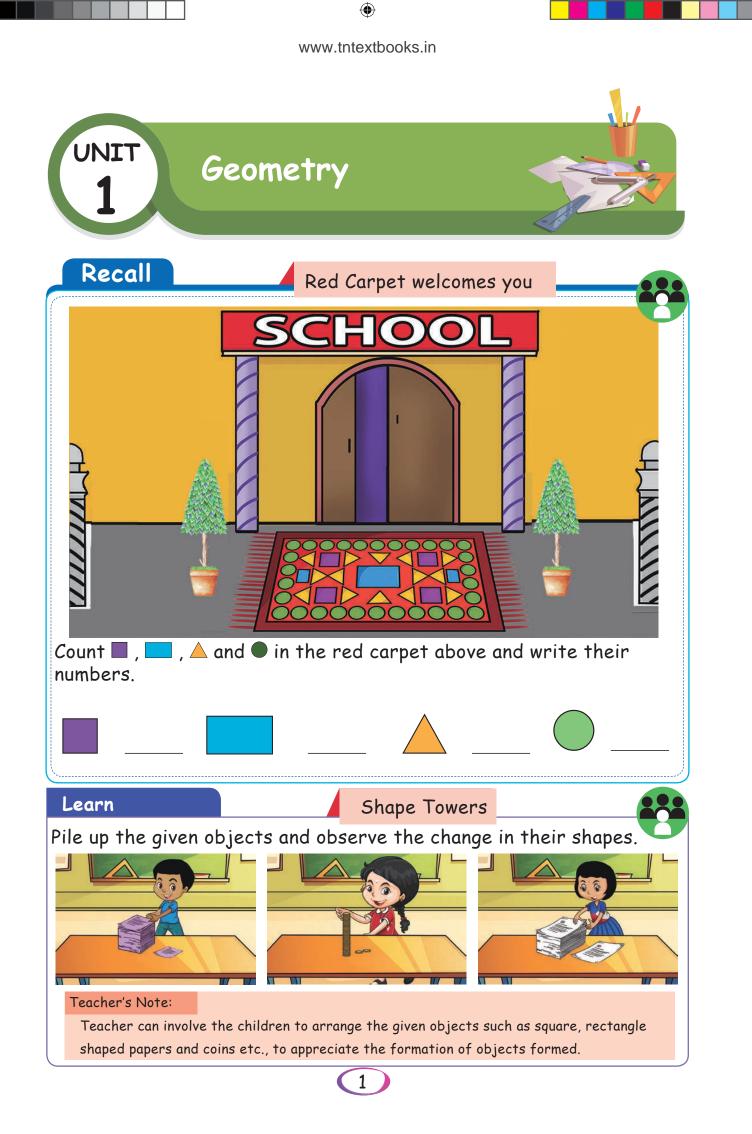
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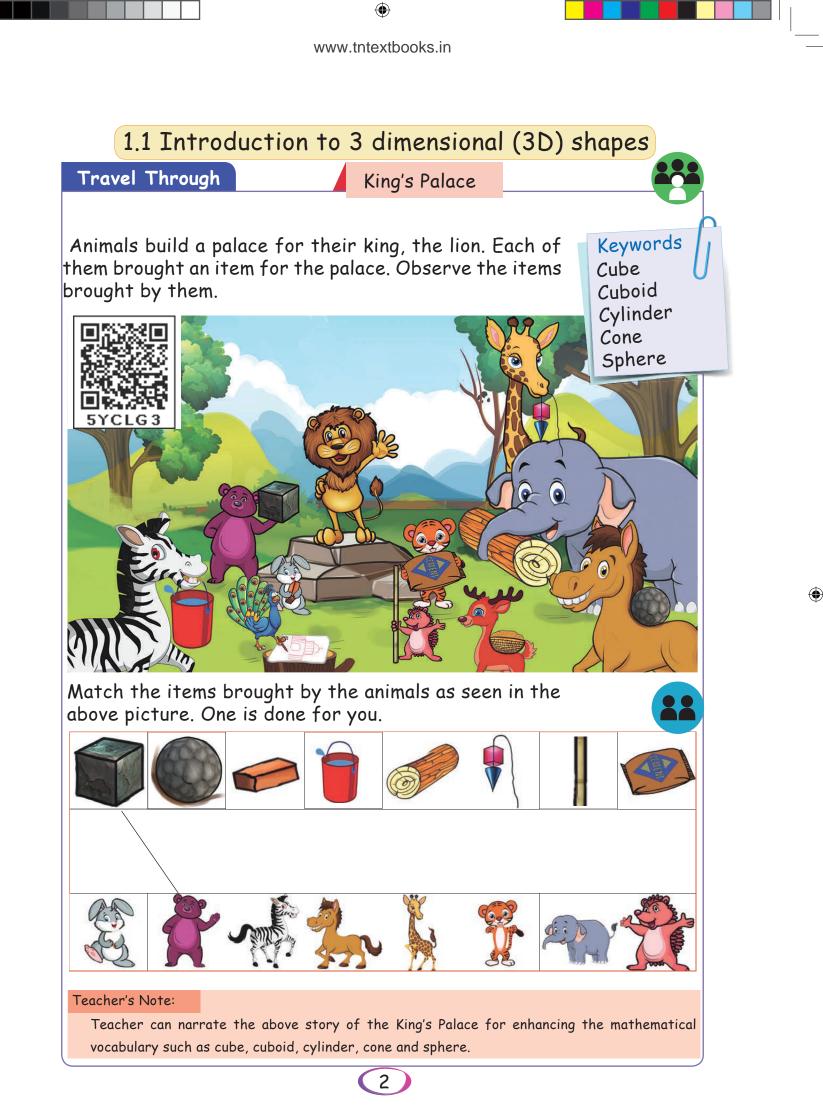
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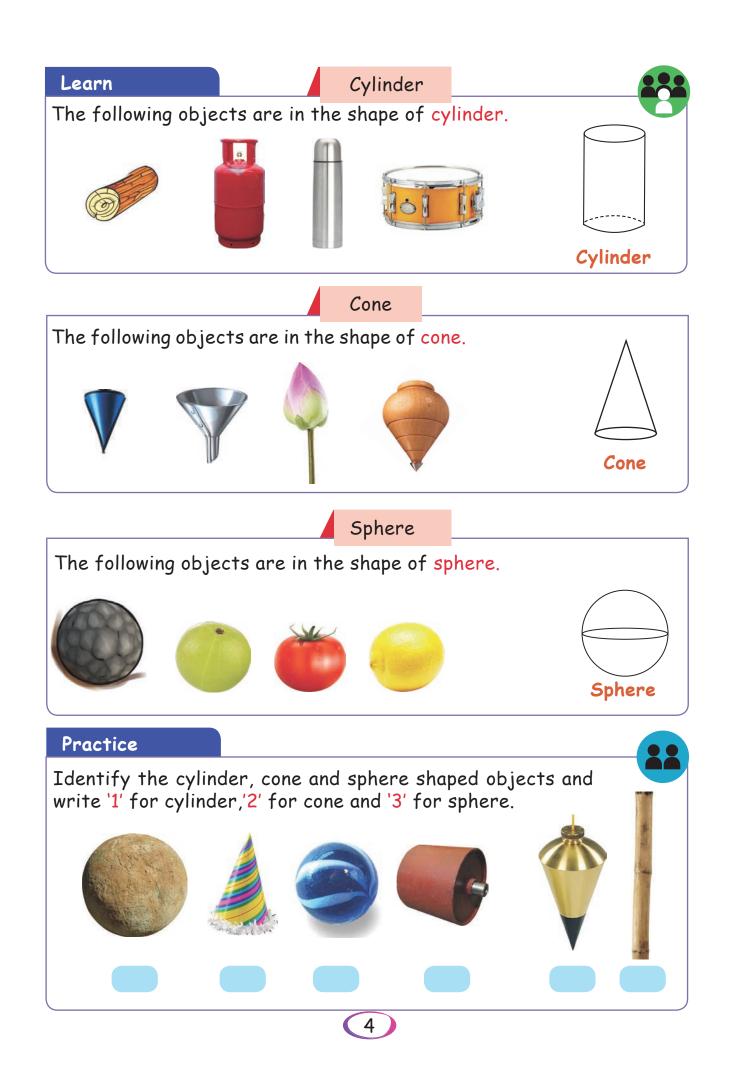
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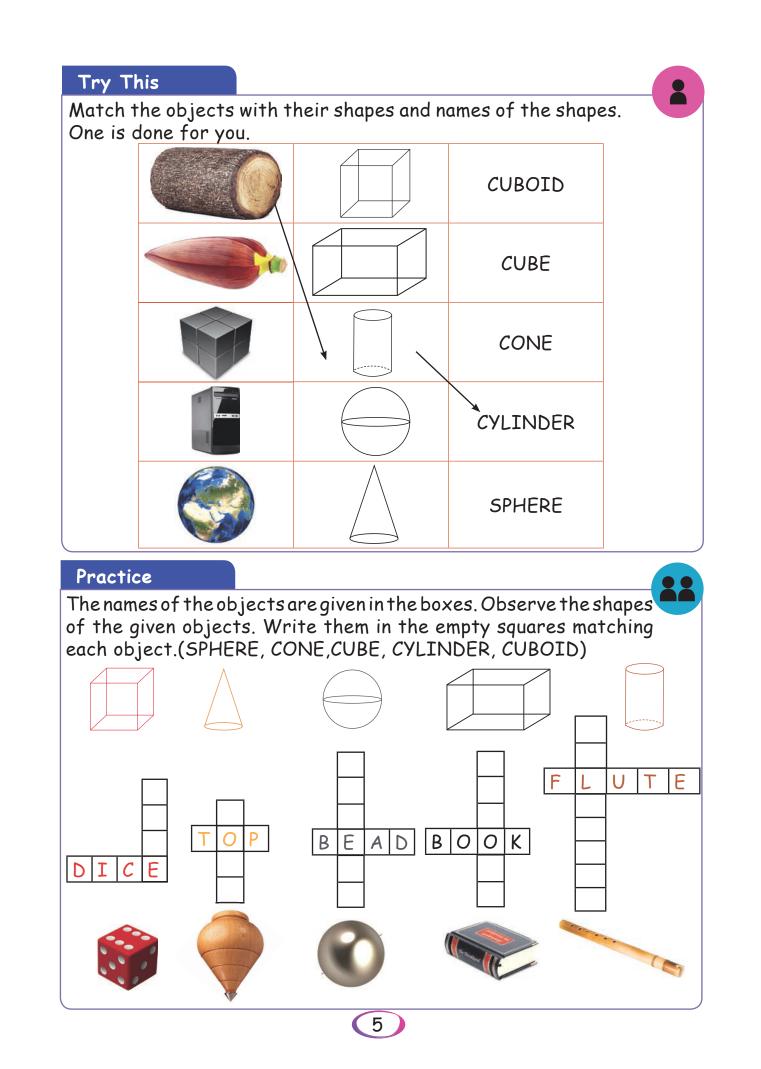
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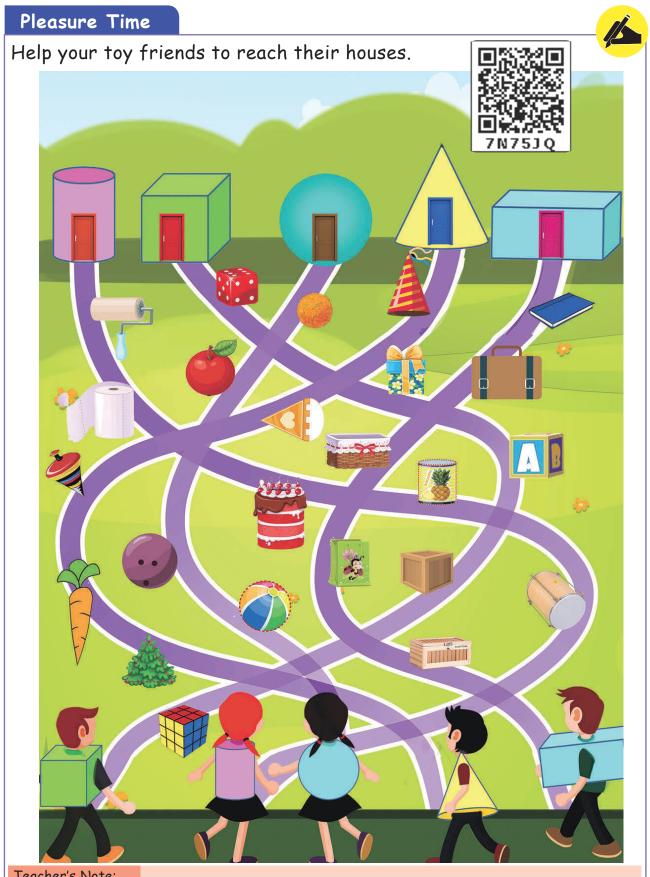
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Teacher's Note:

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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 Travel Through Teacher's Note: 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. 2D impressions of 3D Learn **ERASER** the Remove eraser. it white Press on Press an eraser Take an inkpad. paper and see the 2D

#### Teacher's Note:

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

impression.

on the inkpad.

Practice	
Based on the above activity, fill in t	he table given below. 🛛 🗧
Objects used	Shapes formed
Eraser	Rectangle
Sharpener	
Dice	
Bead	
Teacher's Note: Do the activity by using the objects like per impression.	ncil, sharpner, dice, ball, beads etc., Observe the

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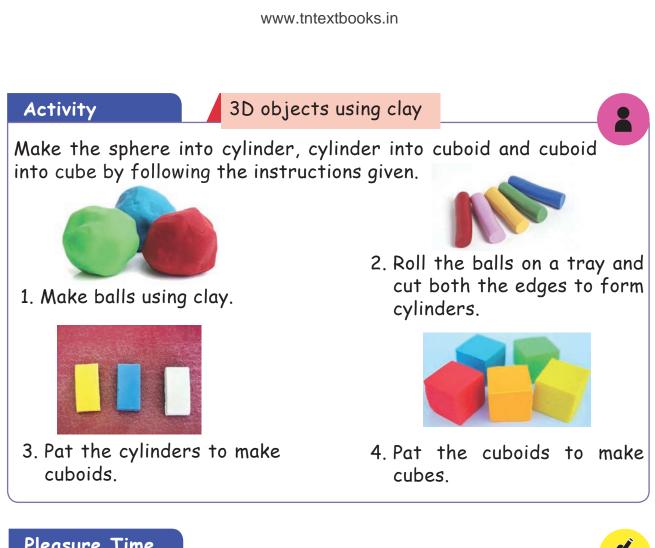
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id write the hulles of	the shapes formed.	
3D Shaped objects	Traced figure	Name of the 2D shape
ERASER		Rectangle
Activity ake triangle, rectangl	3D figures from e,circle shaped colour	2D shapes
		3D figures formed fro

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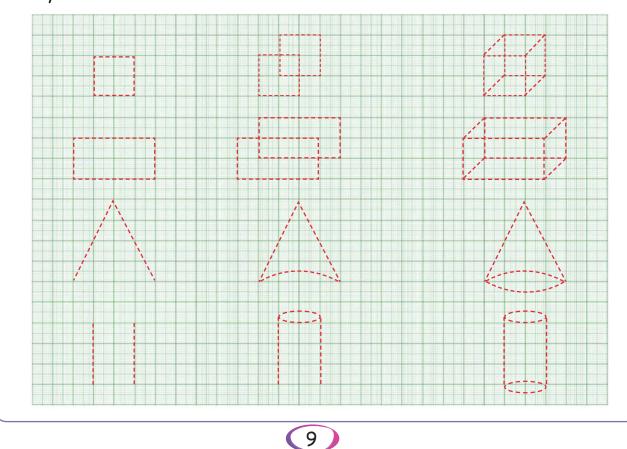
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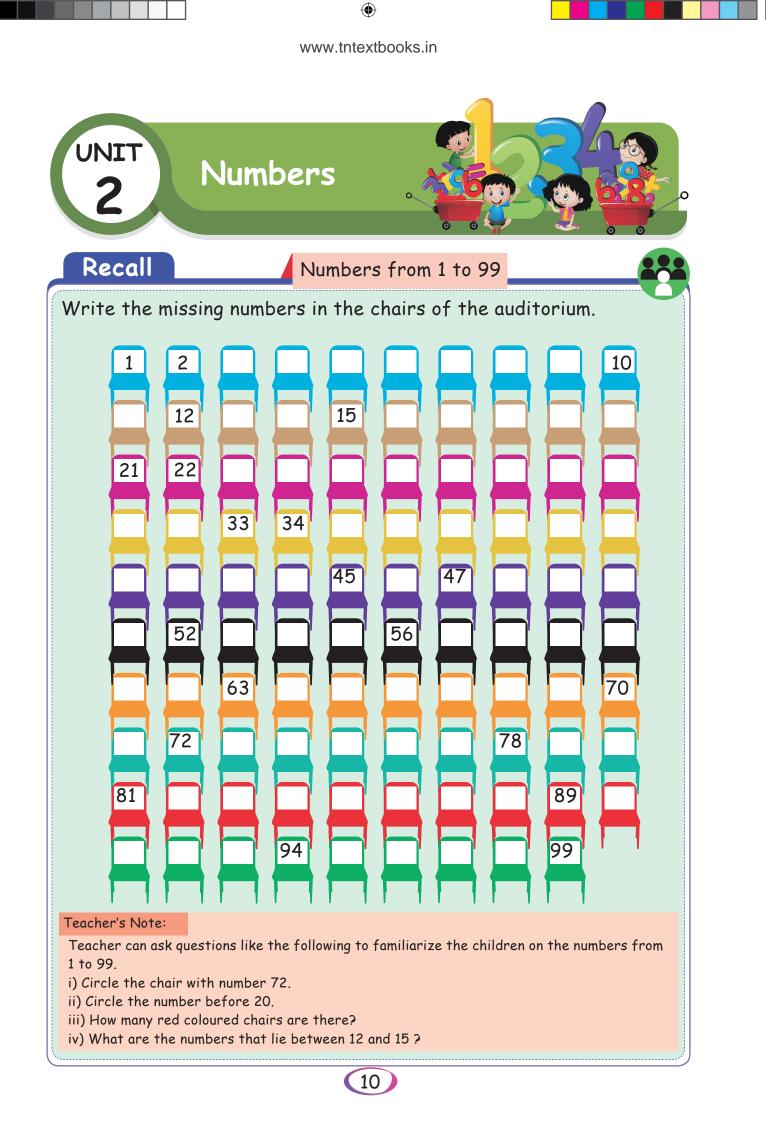
#### Pleasure Time

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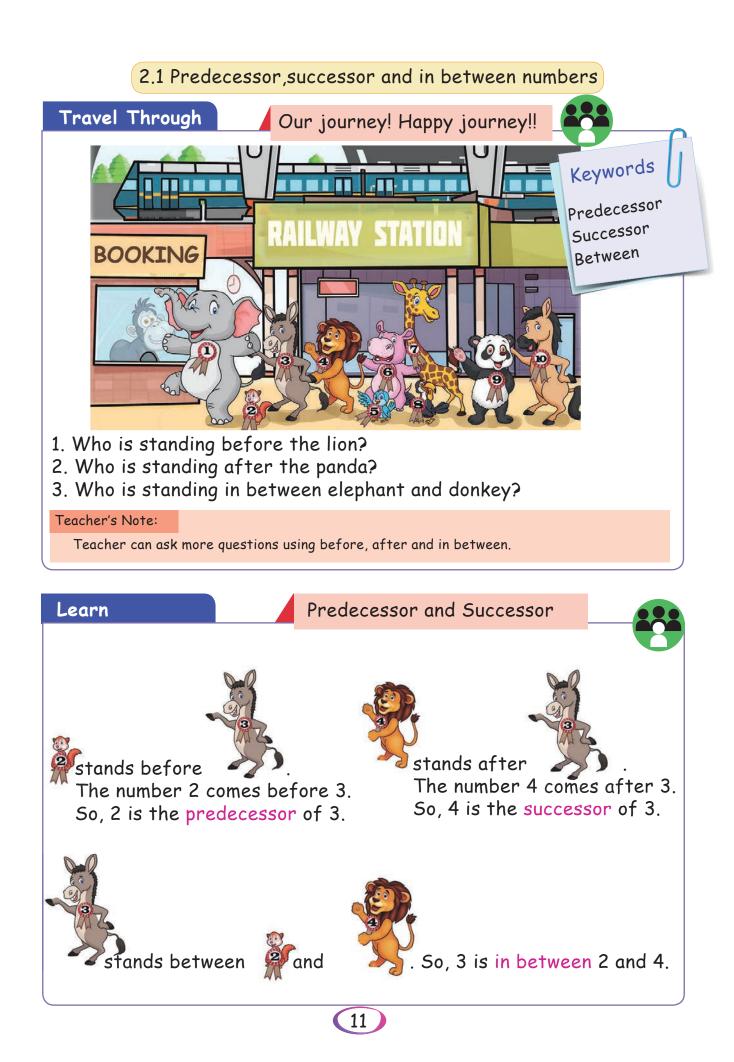
Let us join the dots and draw shapes like cube, cuboid, cone and cylinder.



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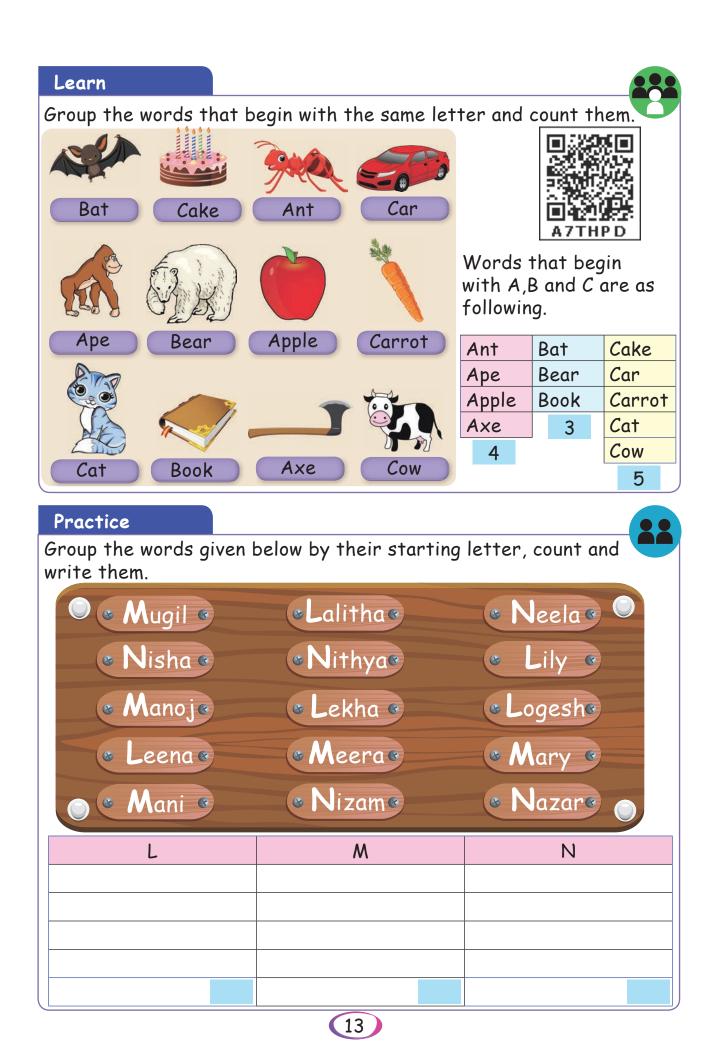
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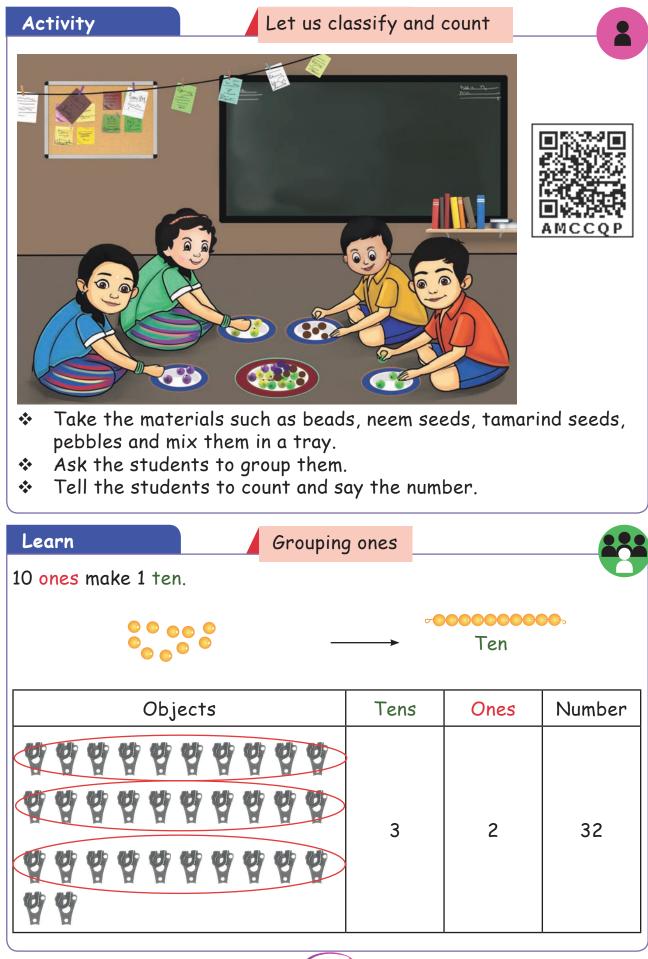
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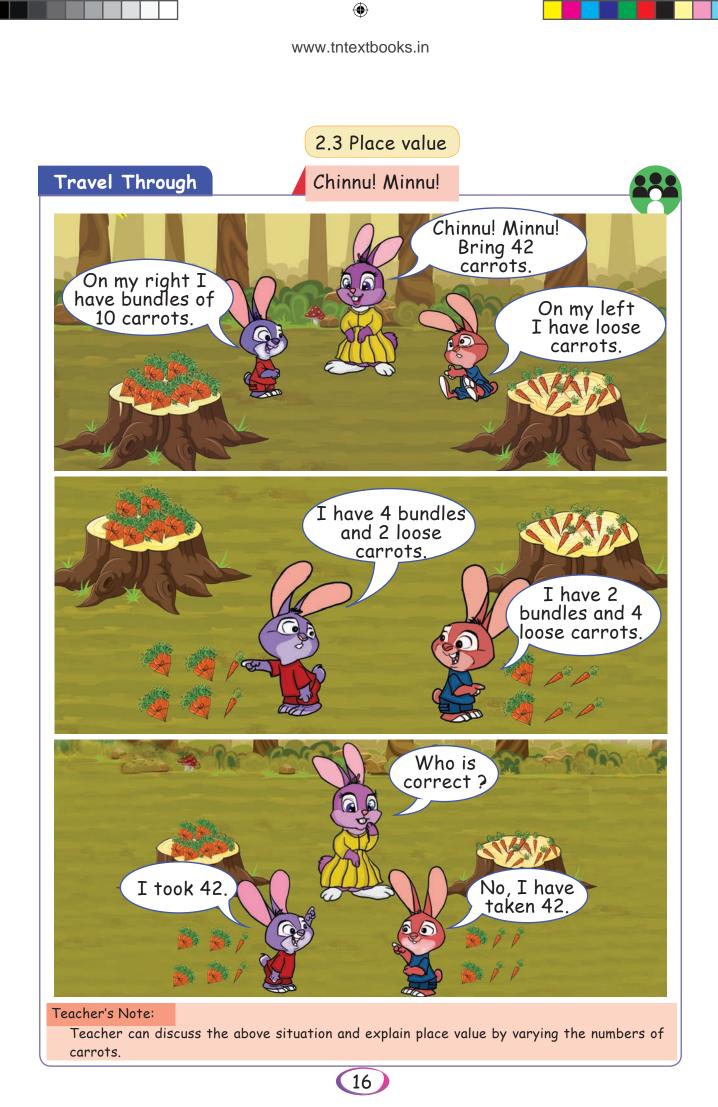
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<b>Practice</b> Group the objects in tens and ones and writ	e the nu	mber.	
Objects	Tens	Ones	Number



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Learn			
Let us lea above situ	rn about the place value o lation.	f digits in number	using the 🚺
Number	Bundles of ten carrots	Single carrots	
42			BWN1T1

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		$\bigcirc \odot \odot \bigcirc$
53		
38		

Complete the empty boxes in the table given below.

		Value
ones 32		
61		
55		
47		
29		
Dne 13	1 Ten	3 Ones
58		
	61         55         47         29         One       13	61         55         47         29         One       13         1 Ten

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

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- Take 2 sets of cards with numbers 0 to 9.
- Write the words 'Tens', 'Ones' on the board and place one set of cards in front of each word.
- Call two students to stand in the places of ones and tens.
- 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 twenty beads.
- Next student who is standing before 'Ones' should say, "I am 4,standing at 'Ones' place. So my place value is 4", and should show 4 beads. So,our number is 24. Teacher continues the activity with other students for different two digit numbers.

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Pleasure Time Colour and answer										
	Colour the number boxes with blue if the values in 'Tens' place									
	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

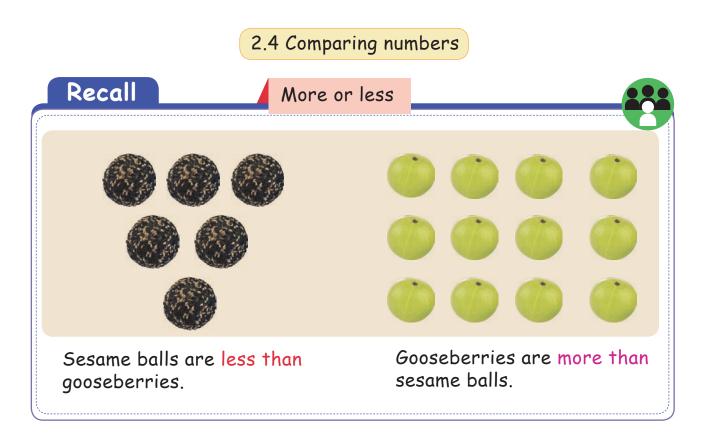
Write all the numbers with 6 in 'tens' places?

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

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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.



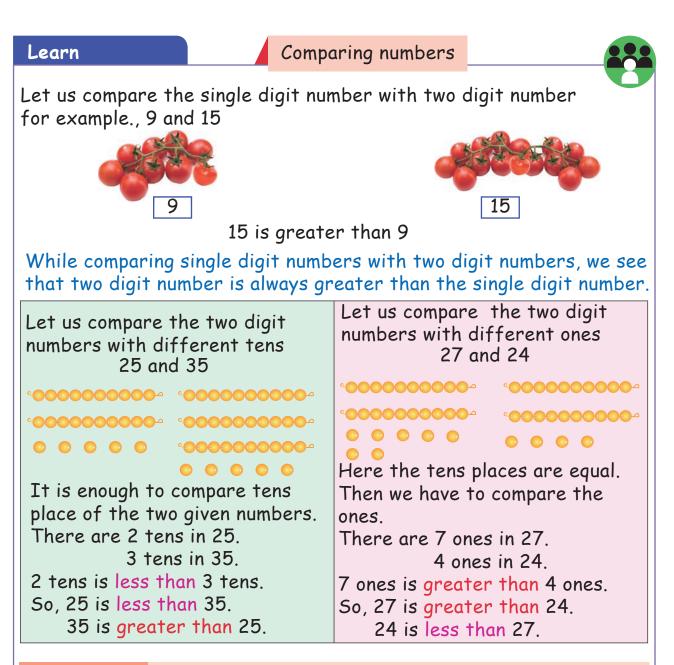
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(20)

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.							
<b>10 10 10 10 10 10 10 10</b>	is greater than is less than is equal to	6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					
	is greater than is less than is equal to						
	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					

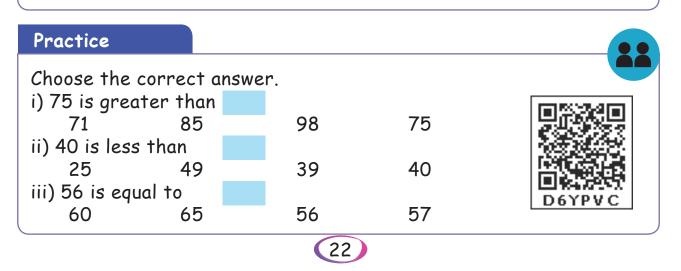
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#### Teacher's Note:

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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Try This
Put a tick (✓) for the correct answer and (X) for the wrong answer. i) 3 tens 4 ones is greater than 2 tens 3 ones ii) 6 tens 5 ones is less than 2 tens 3 ones iii) 5 tens 3 ones is equal to 53 iv) 55 is equal to 56 v) 65 is greater than 64 vi) 74 is less than 47
2.5 Number name
Travel Through Sing a rhyme
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
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

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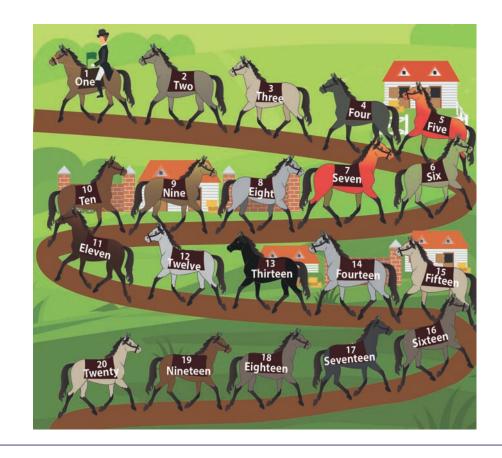
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### Learn

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



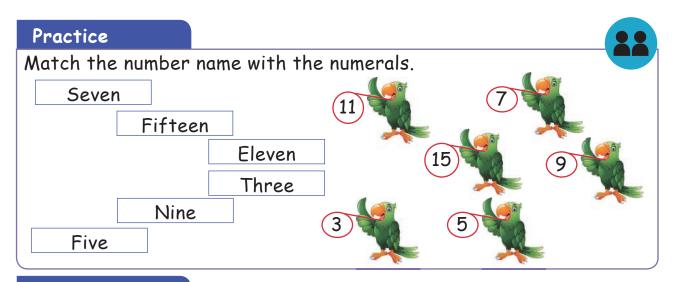
## Practice

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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





# Try ThisFind and circle the number names 11-20 hidden in the box.EIGHTENOFIGHTENOF

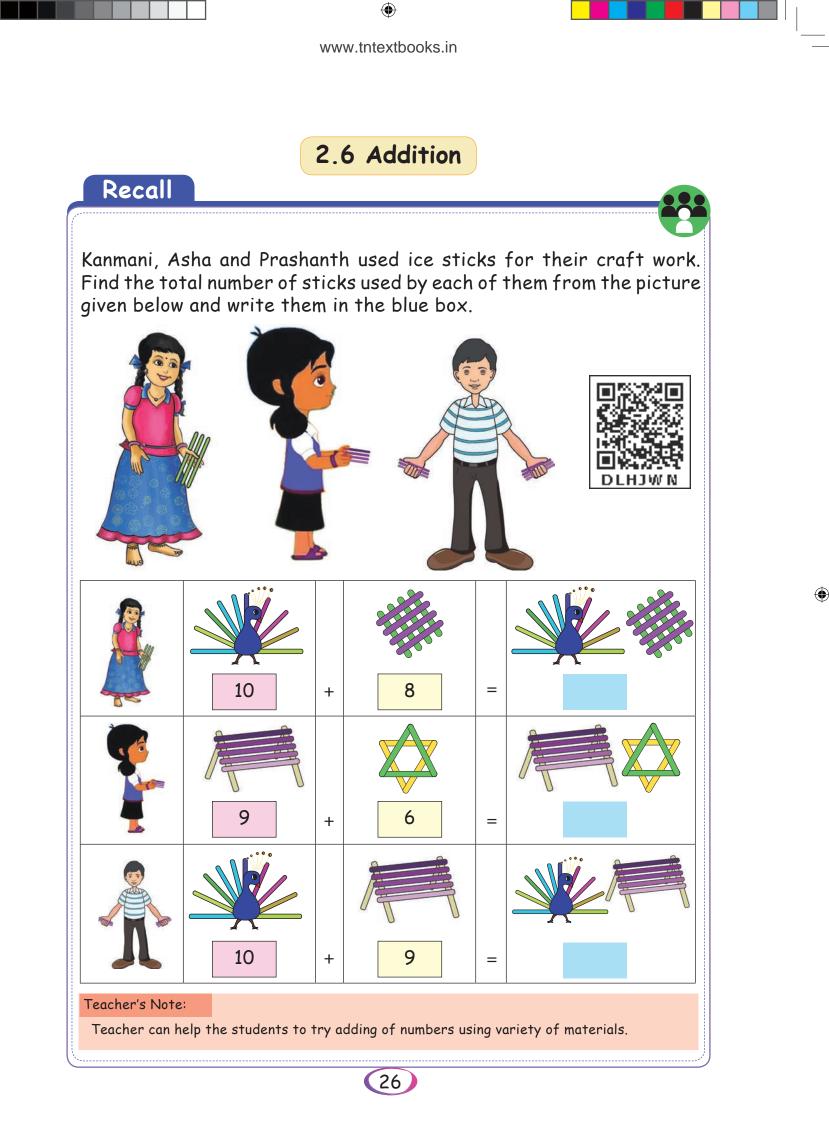
	L	6	H	I	E	E	N	0	r
L	Р	S	I	X	Т	Е	Е	Ν	0
E	0	U	F	Q	R	Т	Е	Е	U
V	A	N	I	R	S	Т	U	V	R
E	Μ	N	F	W	X	У	Ζ	A	Т
N	Р	S	Т	W	Е	L	V	Е	Е
S	E	V	E	N	Т	Е	Е	Ν	Е
Ν	I	N	E	Т	Е	Е	N	W	Ν
Т	W	E	N	Т	У	G	Μ	Ν	0
R	Т	Н	I	R	Т	Е	E	Ν	Р

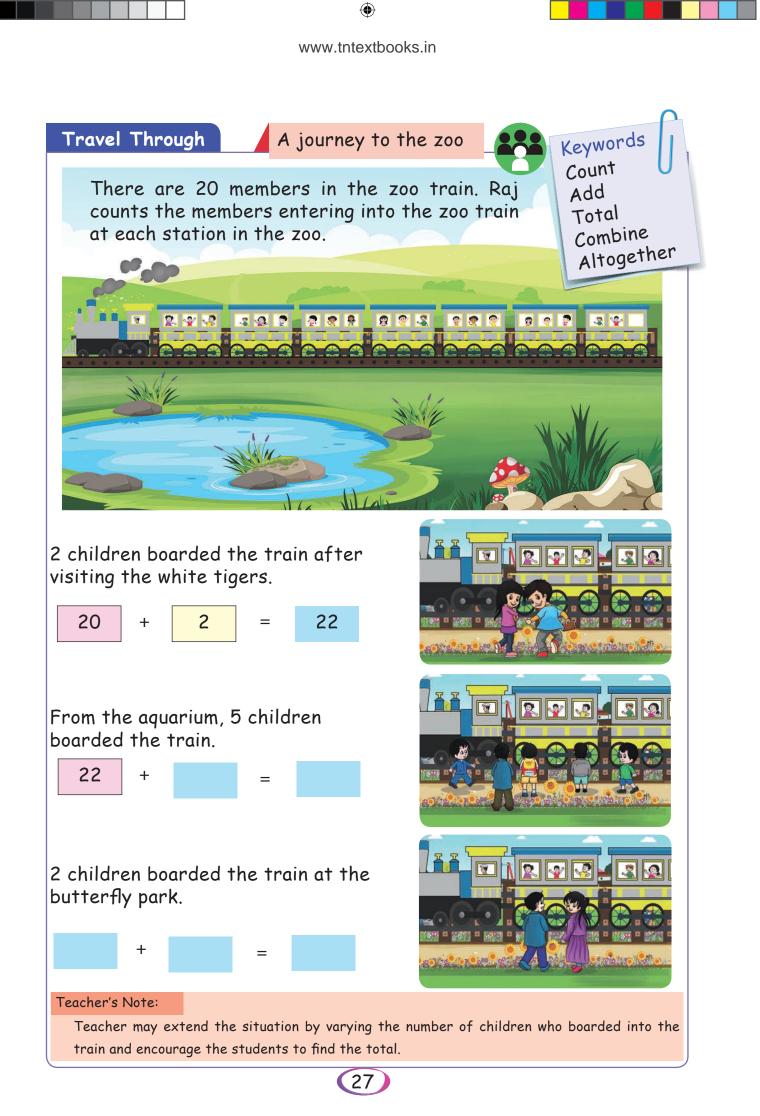
#### Activity

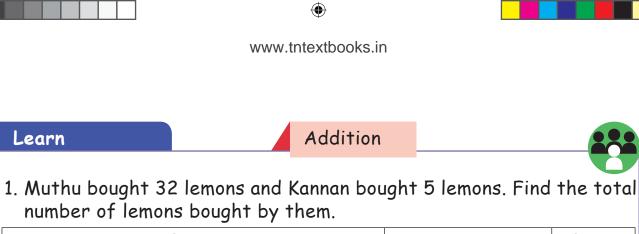
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Find the number name

- 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.







Tens	Ones	ТО
	••	32
	33333	+ 5
		37

2. Abi plucked 24 guavas, Jesi plucked 33 guavas. How many guavas did Abi and Jesi pluck in all?

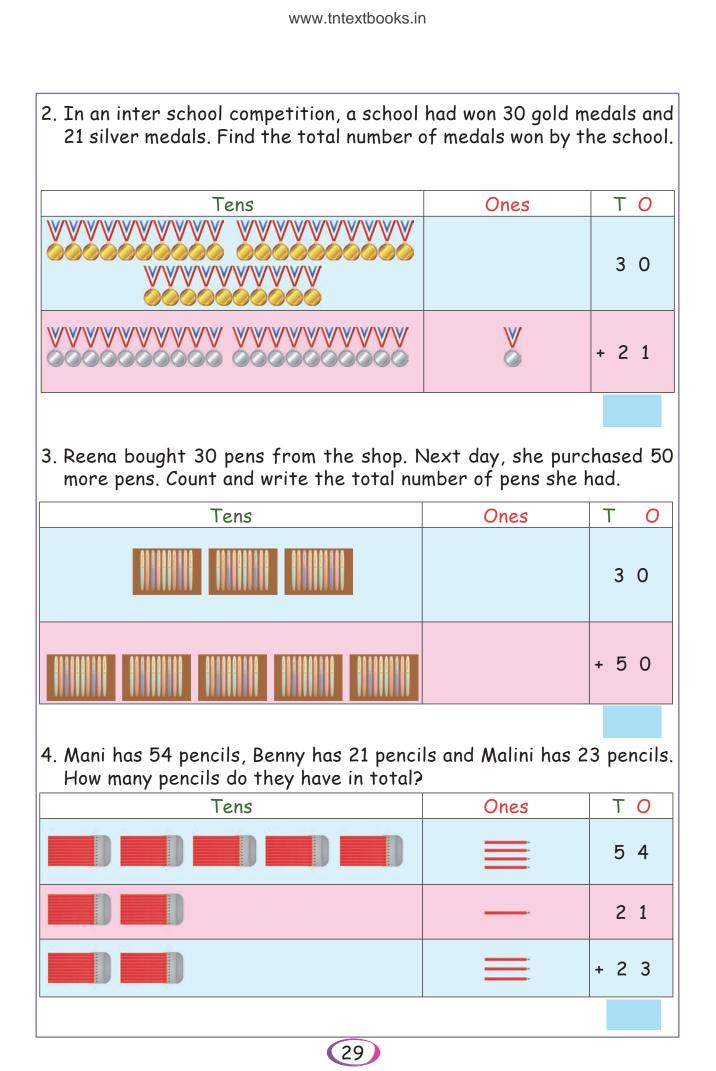
Tens	Ones	TO
		24
		+ 3 3
		57

Practice		
1. A balloon seller has 23 pink balloons How many balloons did he has totally?	and 4 yellow balloo	ons.
Tens	Ones	ТО
3355 3355		23
	- V	+ 4
28		

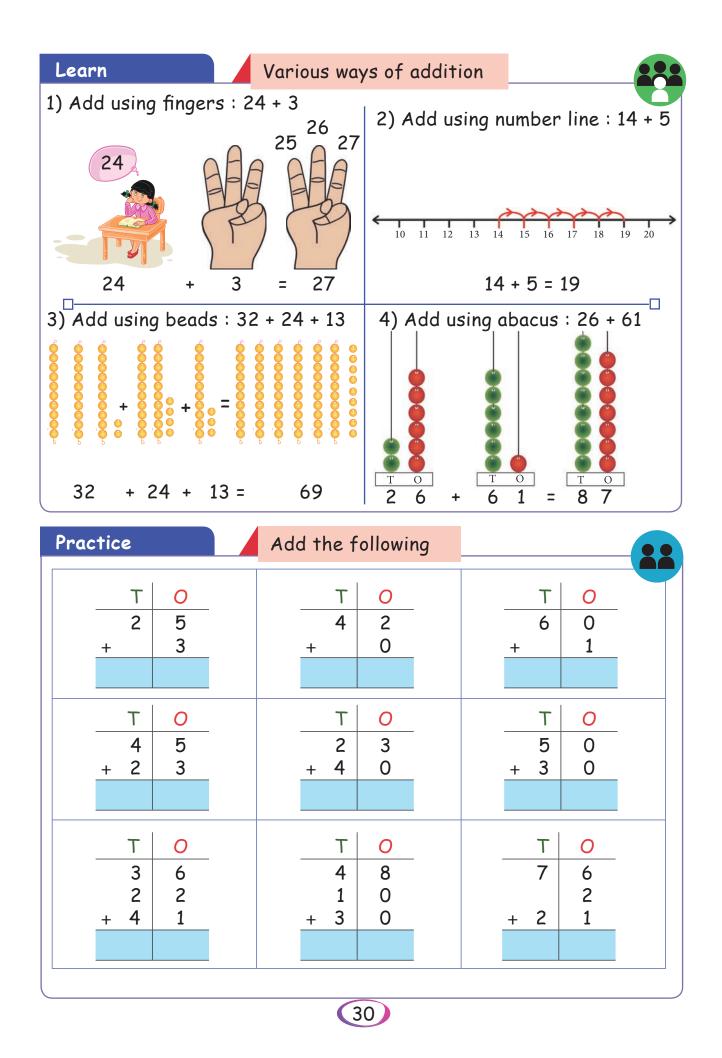
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Learn

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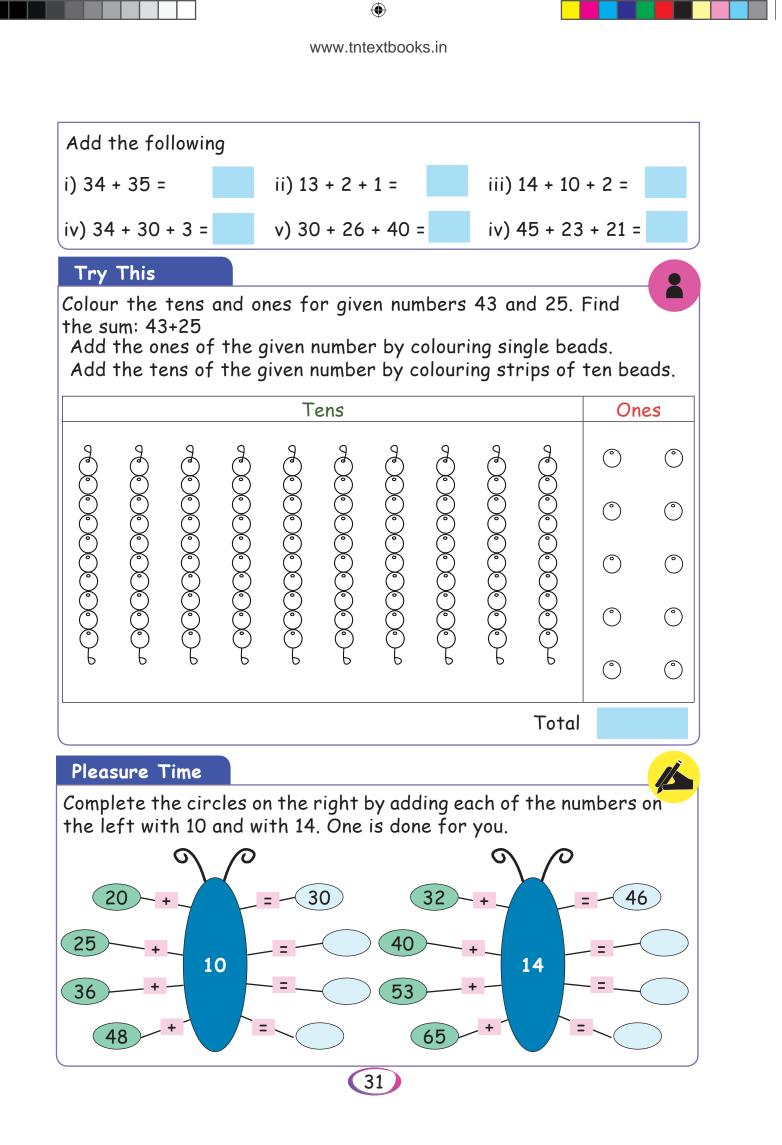
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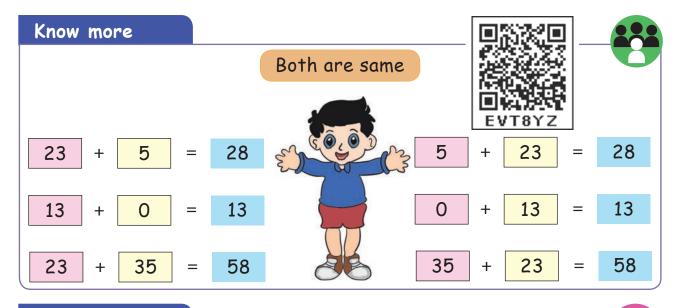


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# Activity

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- 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?

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20+30

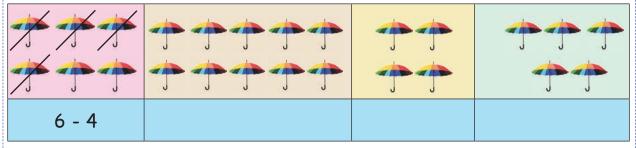
# 2.7 Subtraction

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Observe the picture and write the subtraction fact by striking out the objects.

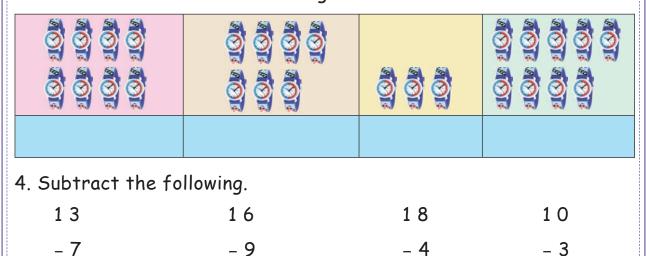
1. Write the subtraction fact inside the box to get the difference 2. One is done for you.



2. Write the number statement to get the answer 6.



3. Write the subtraction fact to get the answer 1.



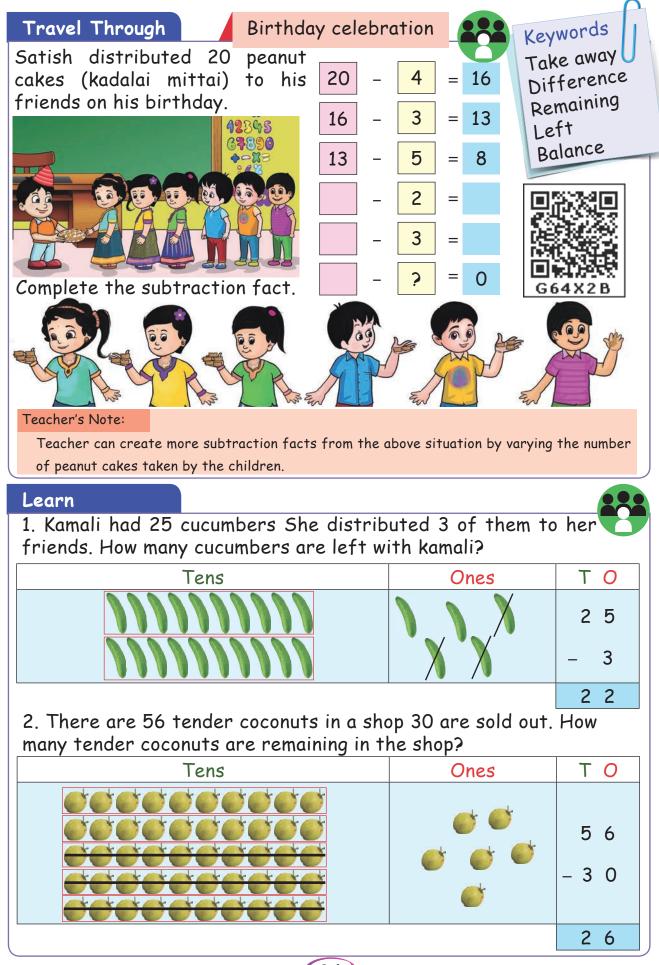
#### Teacher's Note:

Recall

Make the children to understand the difference between the numbers and help to find answer.

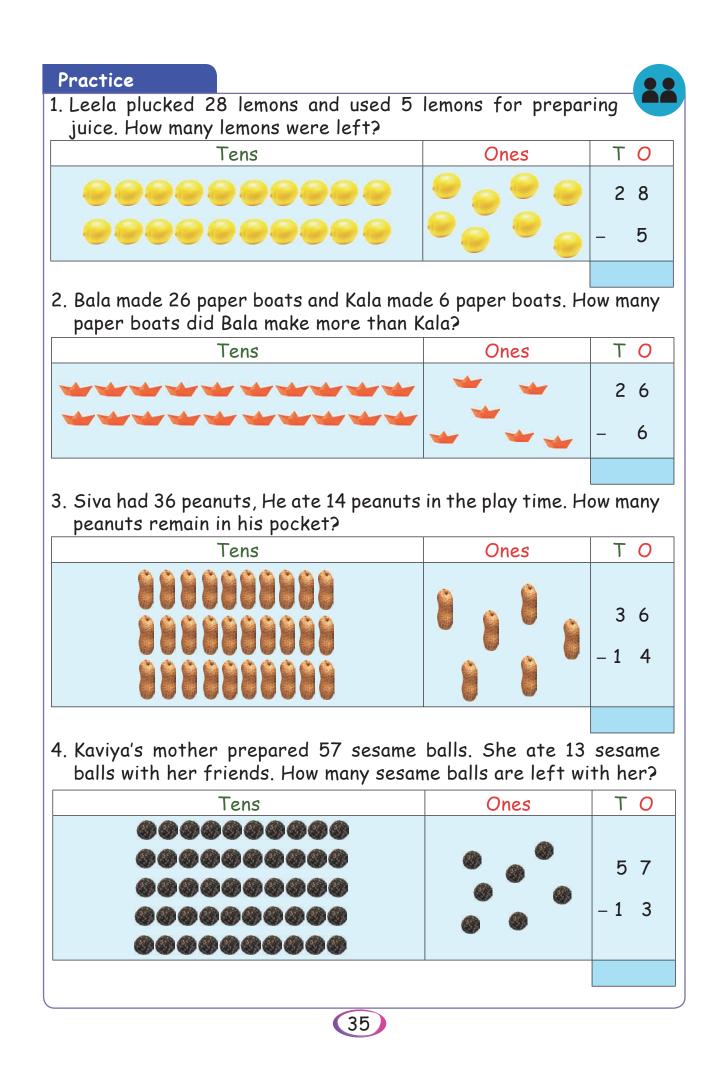
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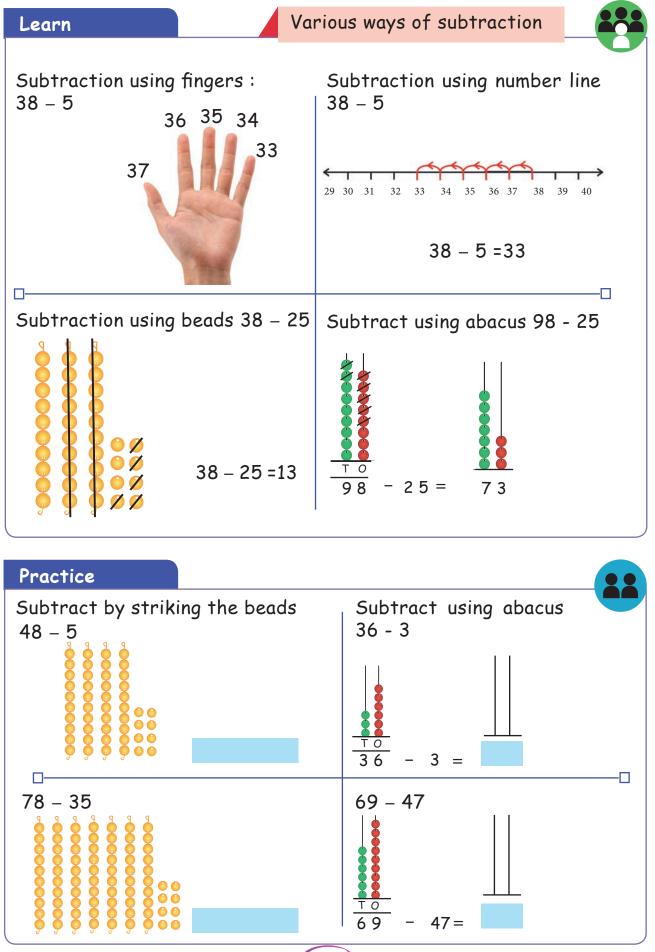


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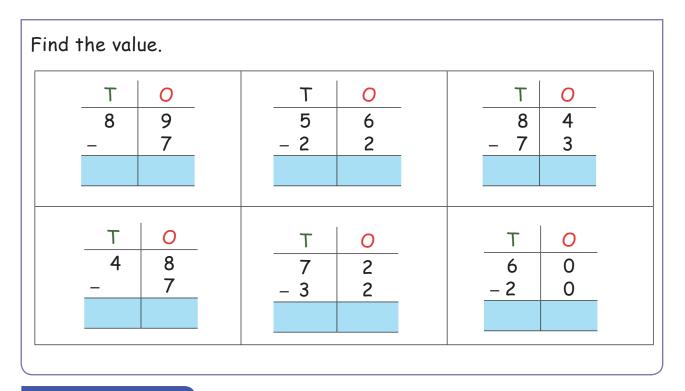


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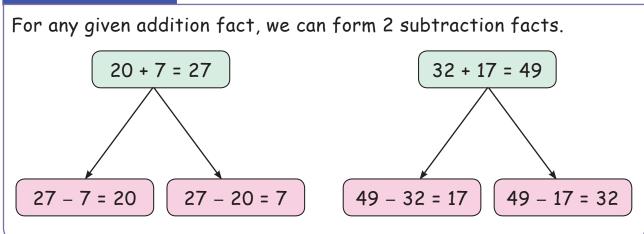
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### Know More

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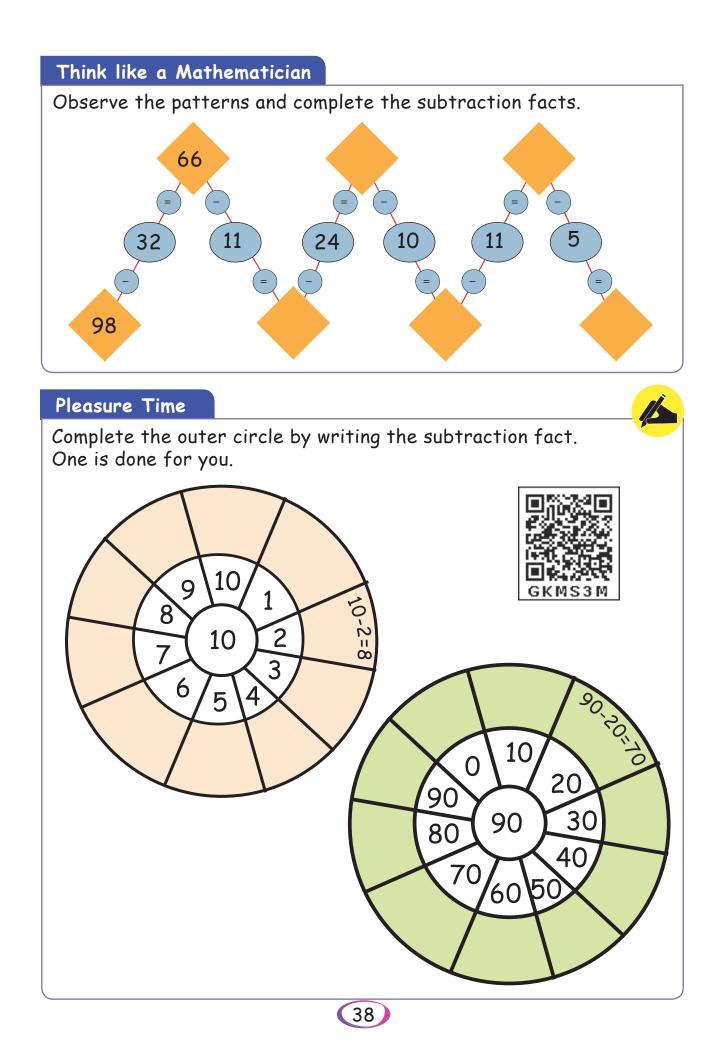


# Activity

- 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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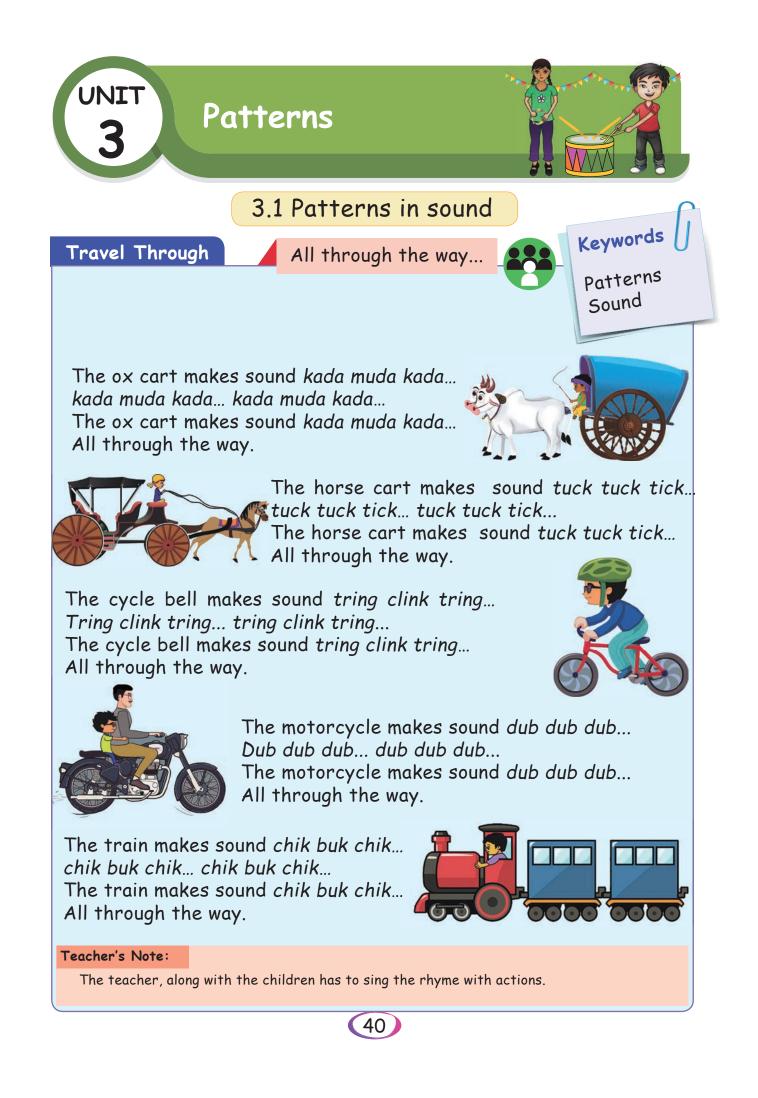
 $( \bullet )$ 

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

# Mental Maths

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- 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?

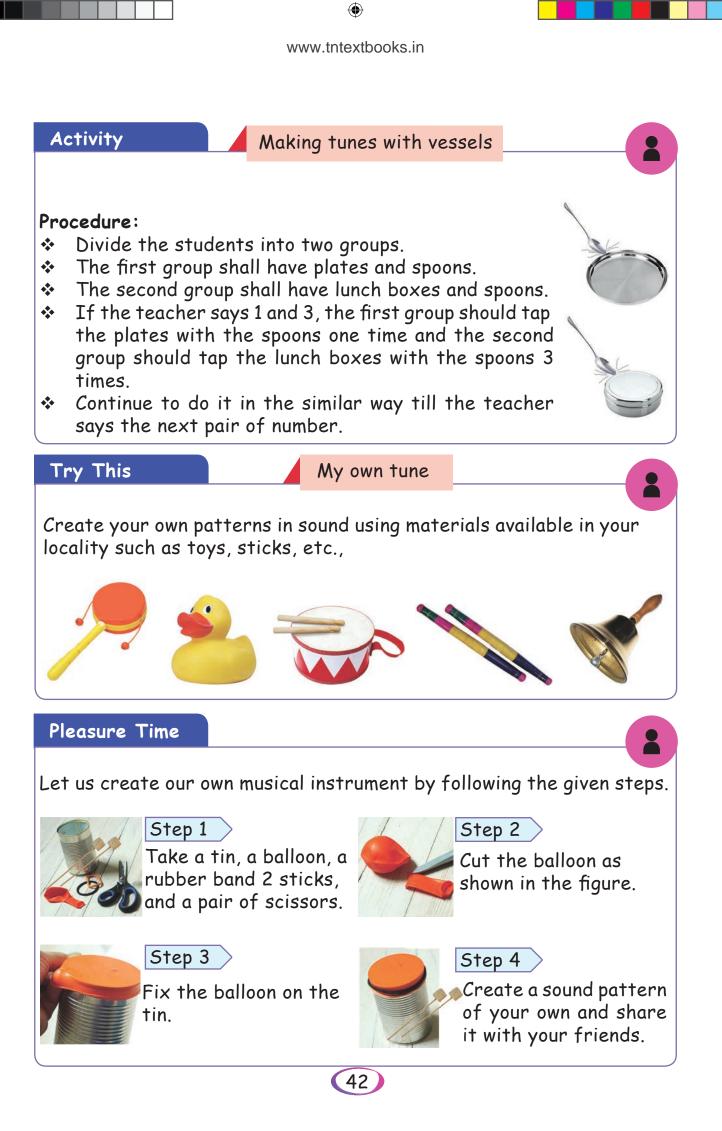


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Observe the picture and discuss.

- 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?

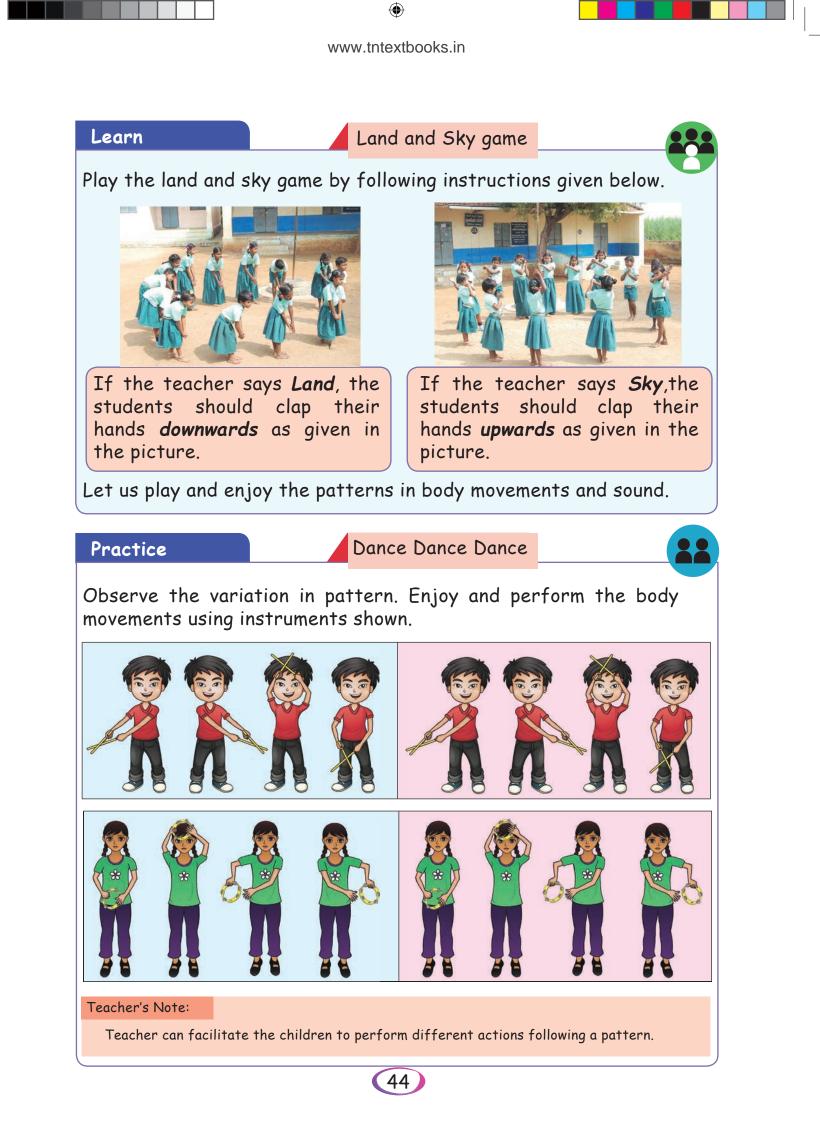
#### Teacher's Note:

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 Karagam, Oyilattam and Bharatham.



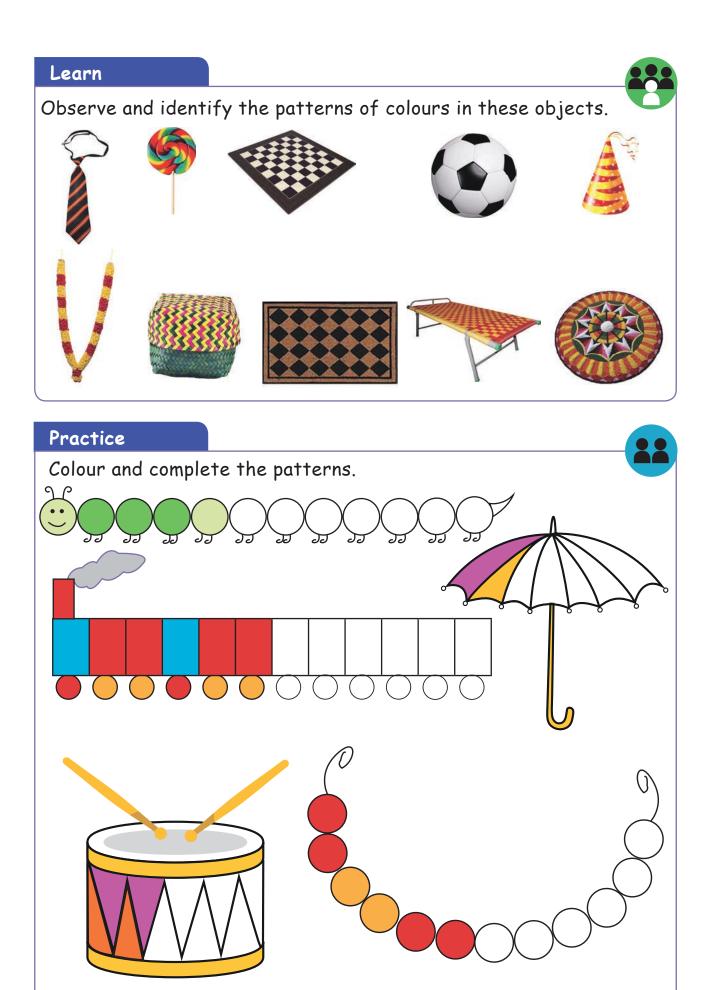
3.3 Patterns in colours Travel Through In a Jungle Teacher's Note:

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.





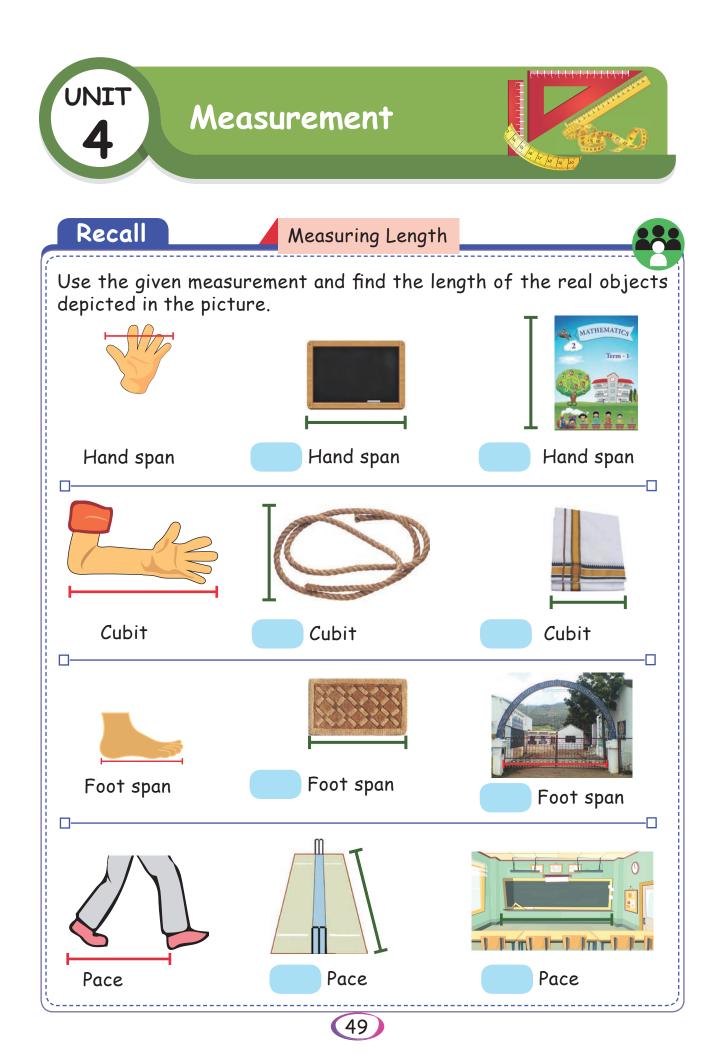
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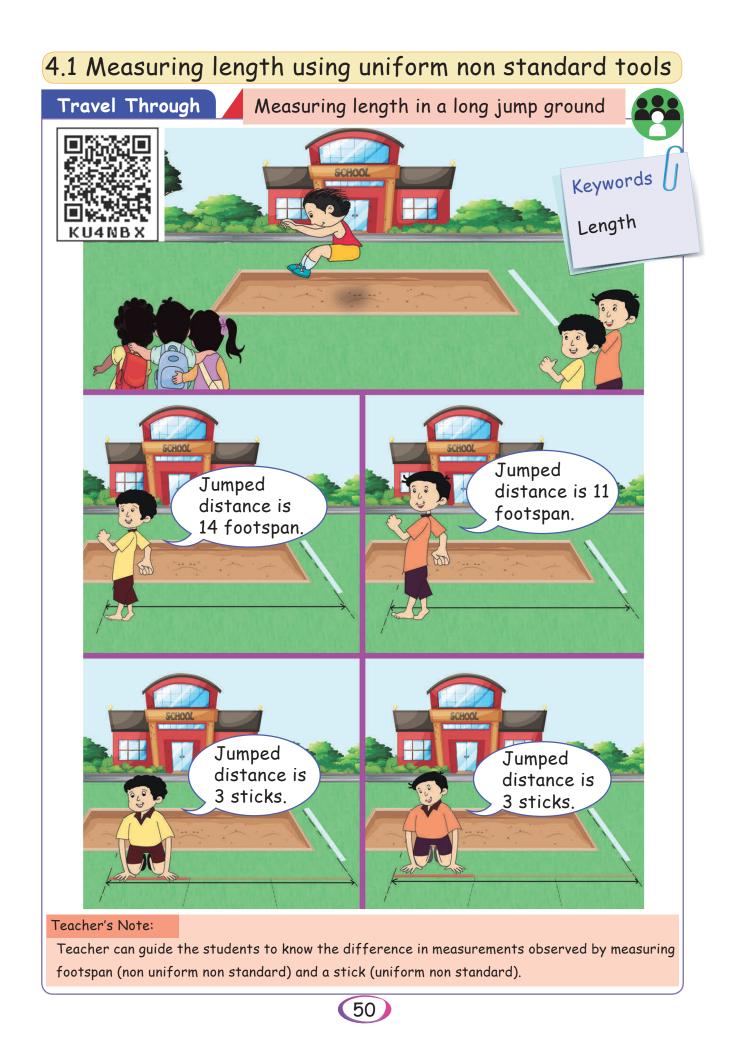


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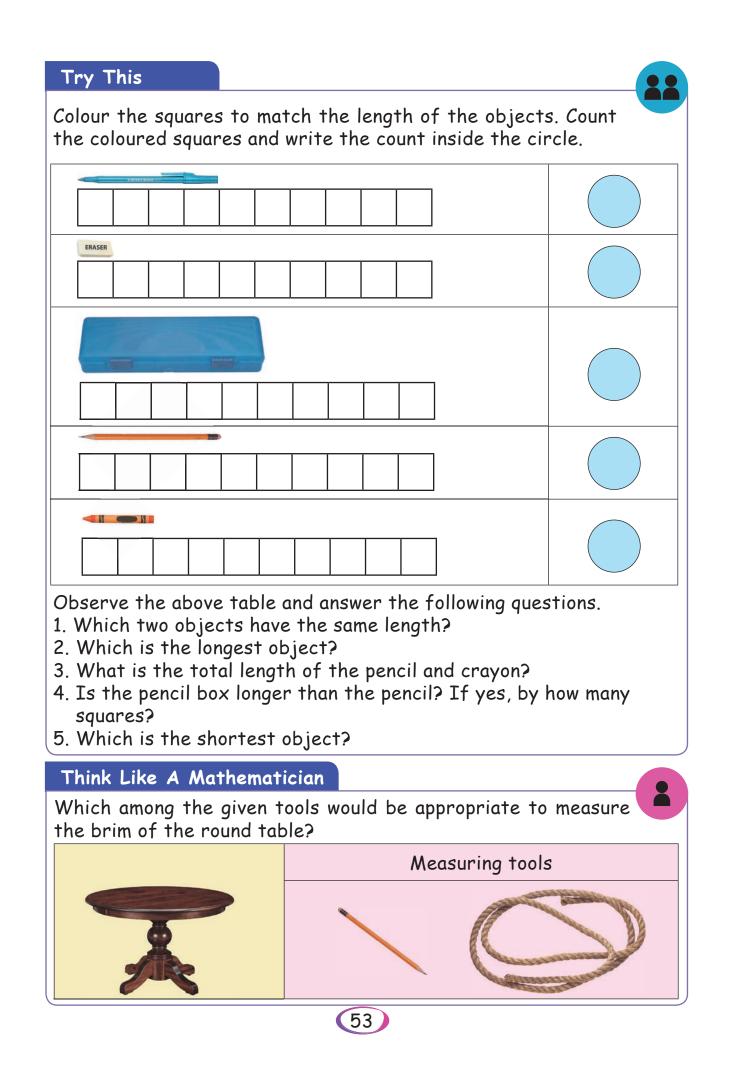
Practice Observe the measuring tool, guess and write the length of the real object by guessing. Then, use the measuring tool and write the measured value.						
Objects to be measured	Measuring tool	Guess value	Measured value			
	<b>A M</b>					
AMATHEMATICS 2 Term - 1	Sharpener					
	Colour pencil					
Teacher's Note: Teacher can make the students to measure various objects in the surrounding by guessing and by actual measurement using non standard tools.						
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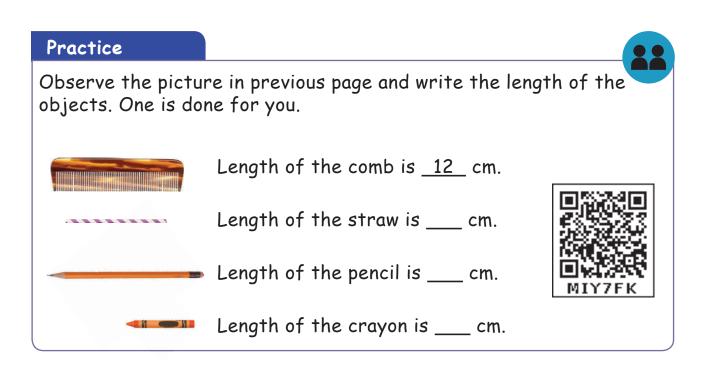
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Practice Tick (✓) the appropriat	a unit to massure th	a following objects		
Object				
J	Metre	Centimetre		
Rem 1				
Learn Let us learn to measure	Measuring len the length of the o			
Teacher's Note: Teacher should encourge children to count the centimetre. The object can be kept at different value say 3cm or 5cm instead of 0 to ensure the children count and right the length of the object.				

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

Objects to be measured	ERASER	nes tanta tanta tanta ang ara ara a
2 Term - 1		

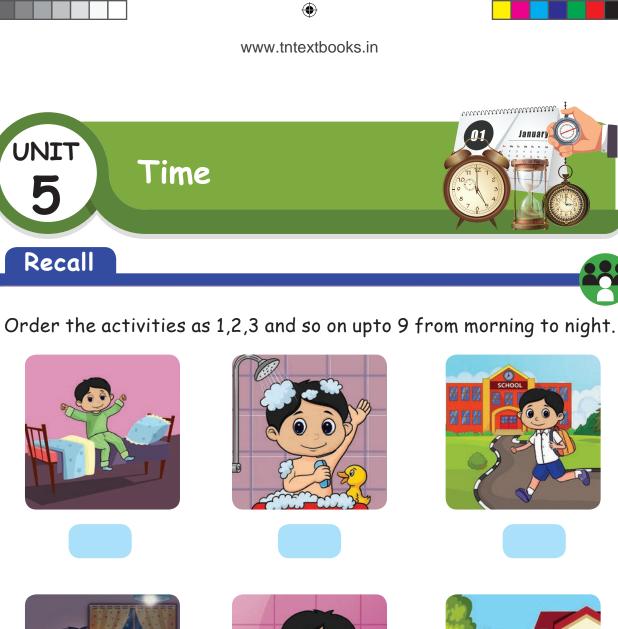
#### Teacher's Note:

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- 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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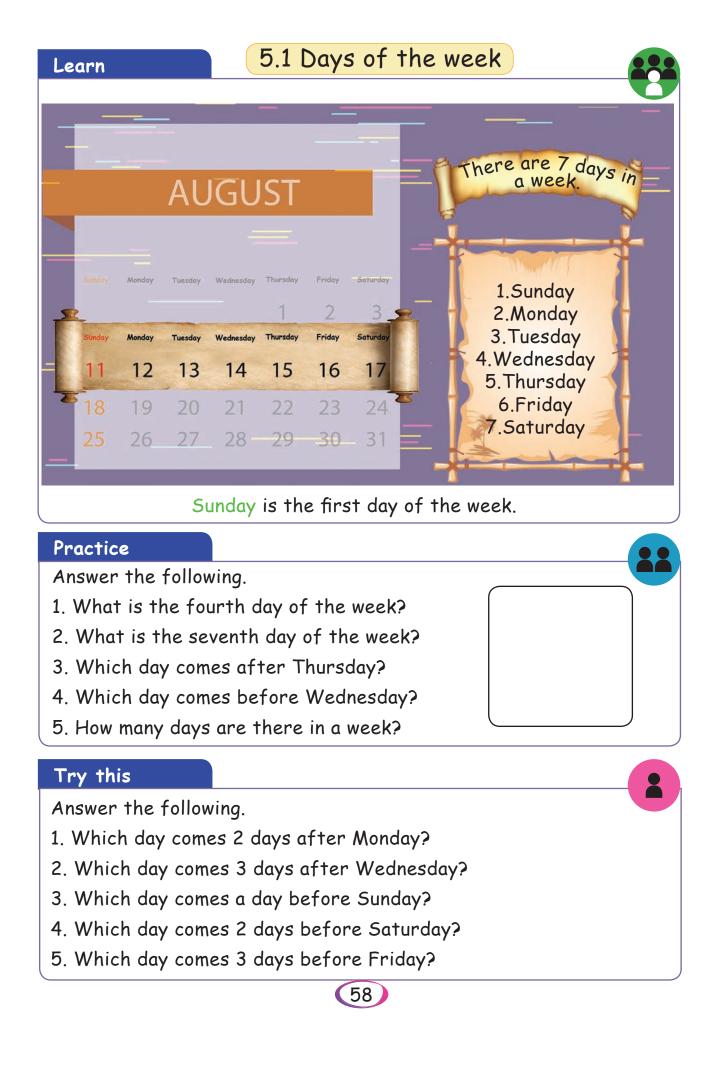












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Try This			Tir	ne <sup>.</sup>	table of a	clas	ss 2
Period Day	1		2		3		4
Monday	Tamil		Maths		English		Singing
Tuesday	English	EVS Tamil Maths	EVS	eak	Maths	٩	Art and Craft
Wednes- day	EVS		Tamil	Lunch br	English	Interval	Drama
Thursday	Tamil		EVS		Computer		
Friday	Maths		English		Tamil		Yoga

Observe and fill in the table.

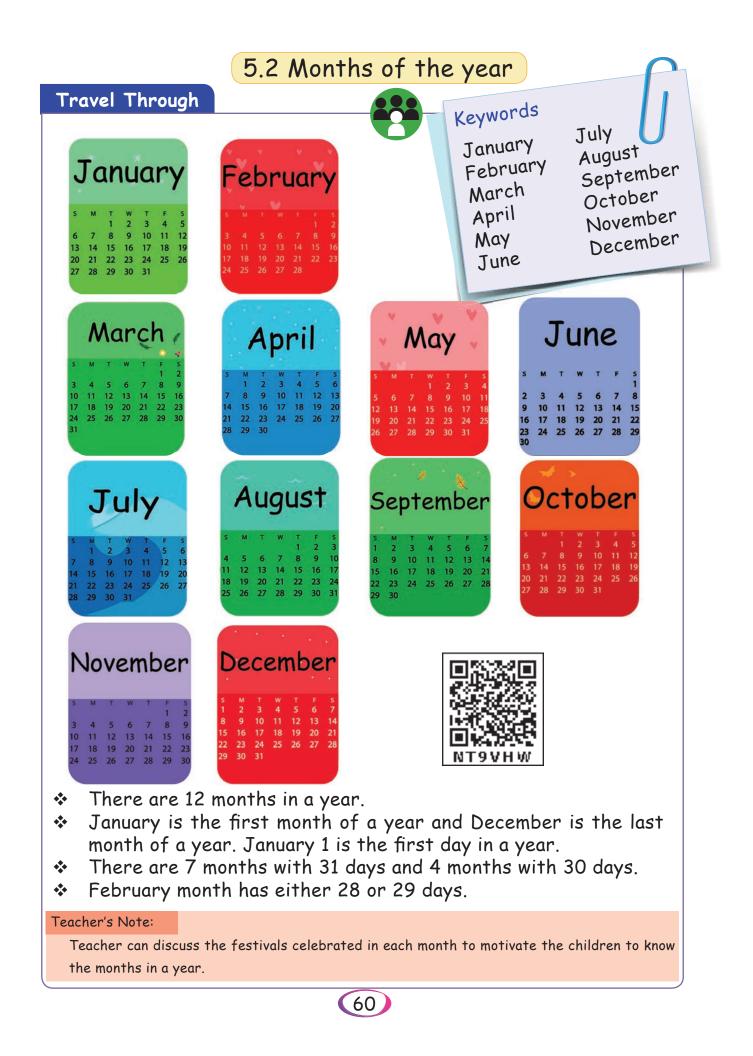
Period	Conducted on which day?
Art and Craft	
Drama	
Computer	
Singing	
Yoga	

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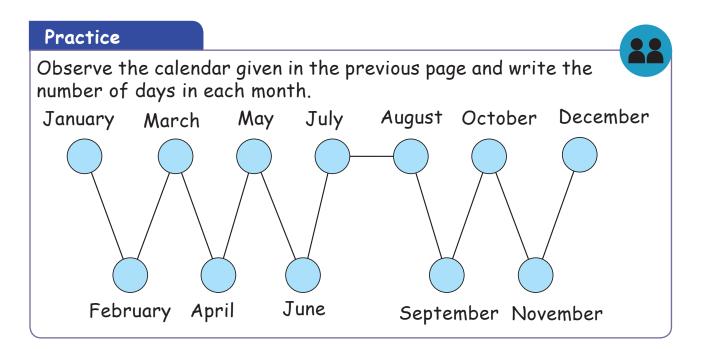


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# Practice

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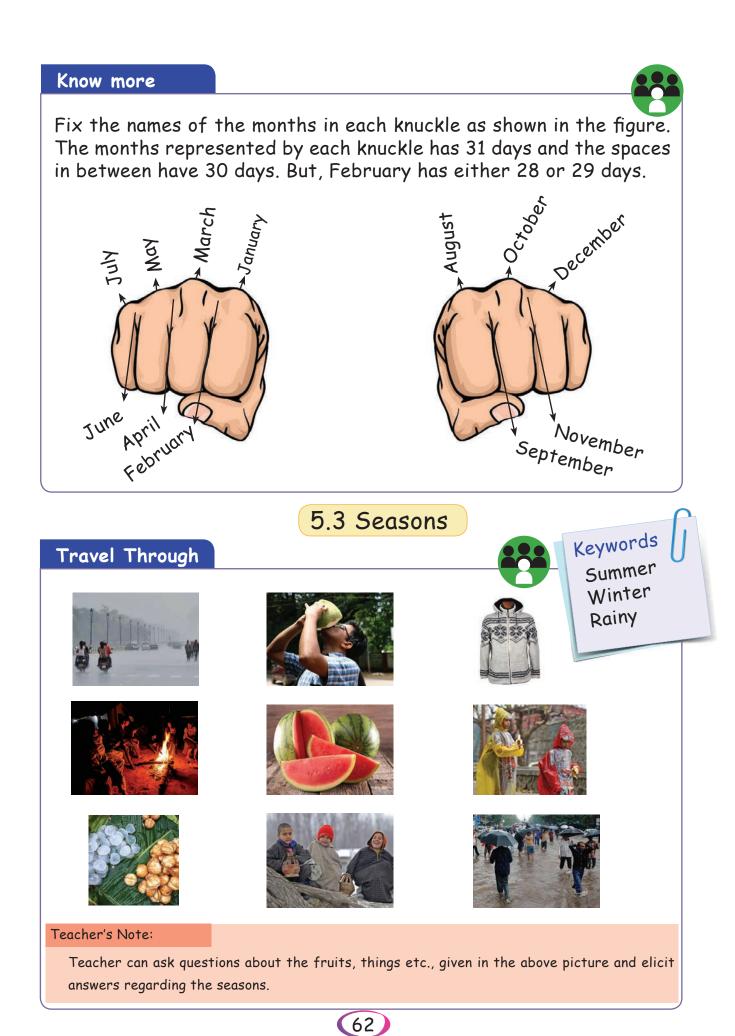
Write the names of the months in order in the following table.

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	Independence	January		
Teacher's Day	HAPPY TEACHERS DAY	August		
Children's Day	Children's Day	September		
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# Game

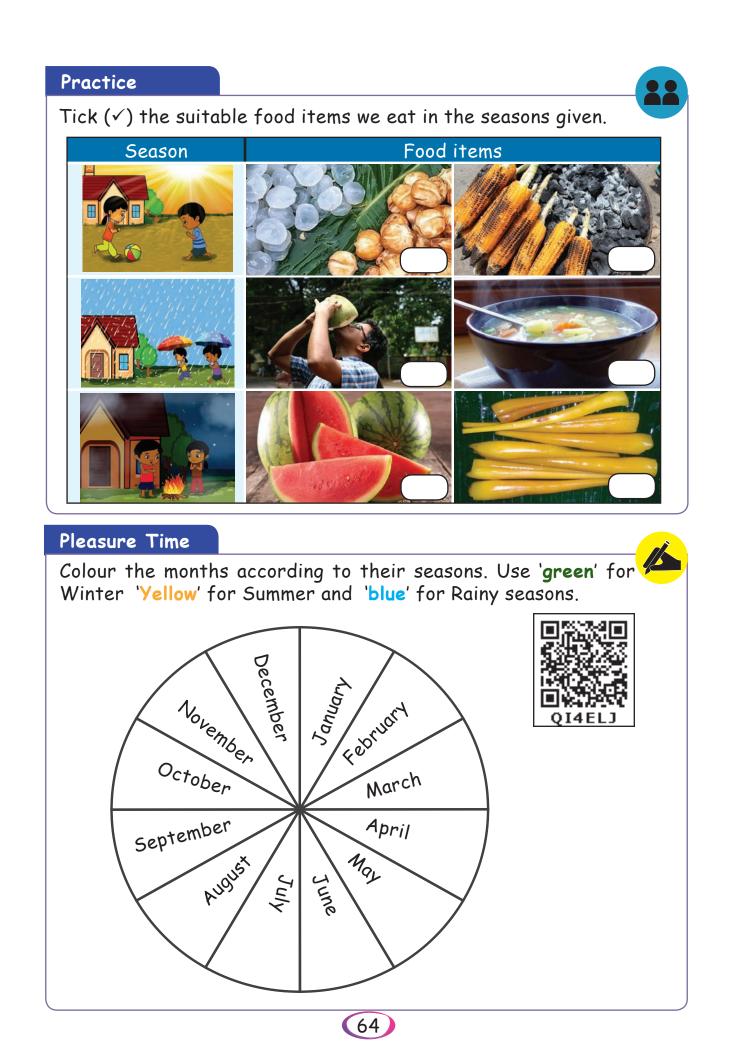
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## Procedure

- 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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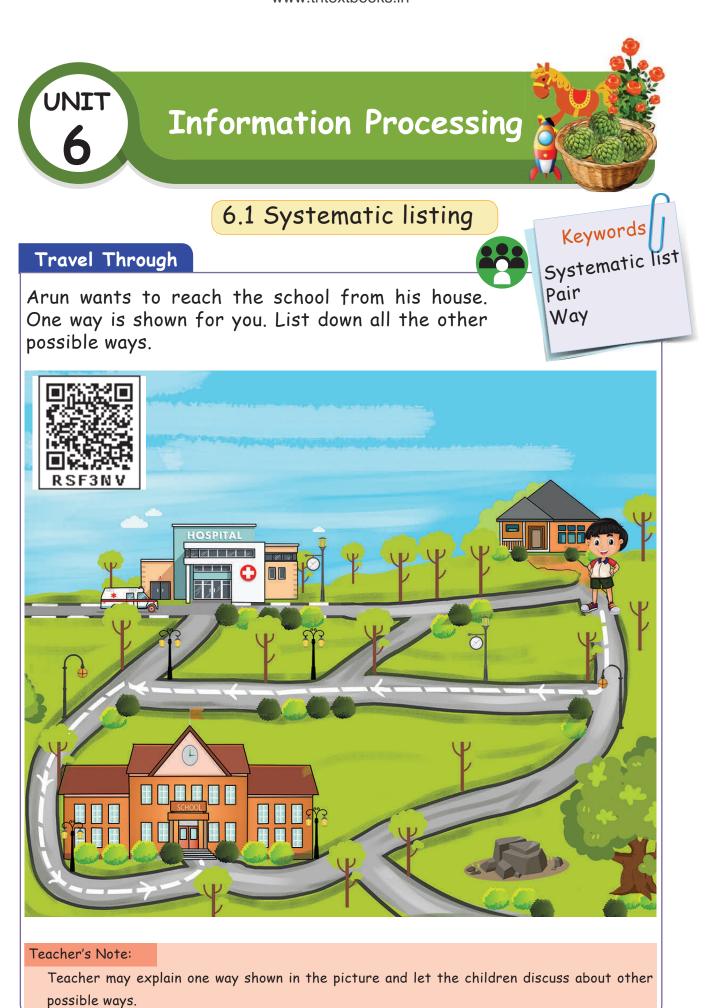
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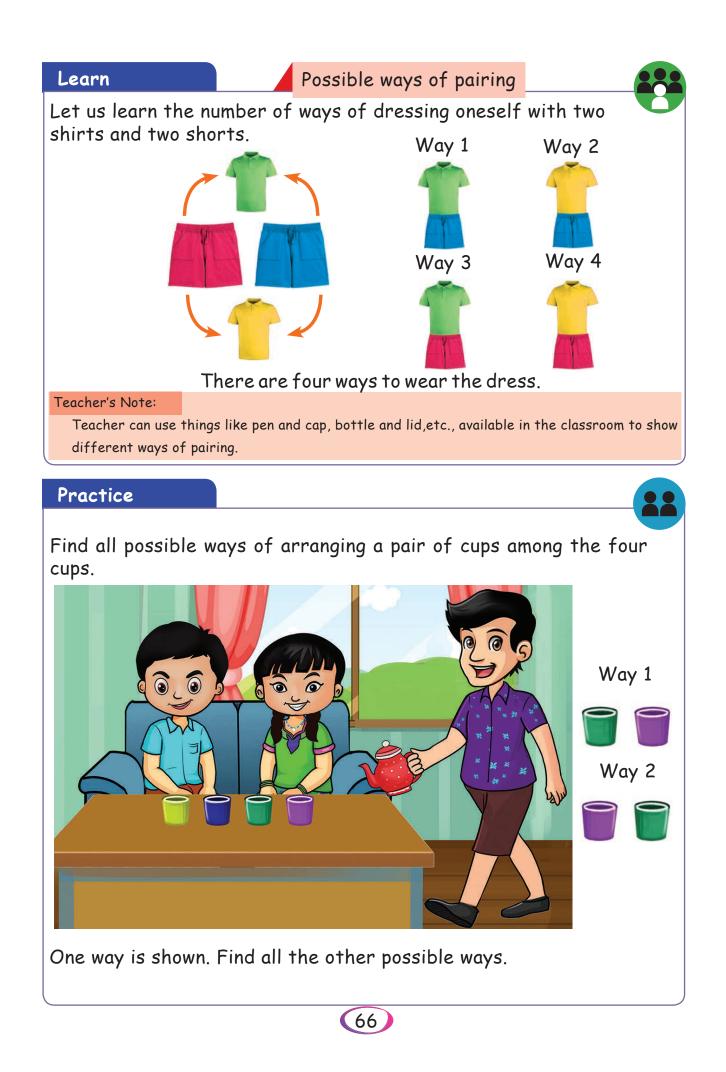
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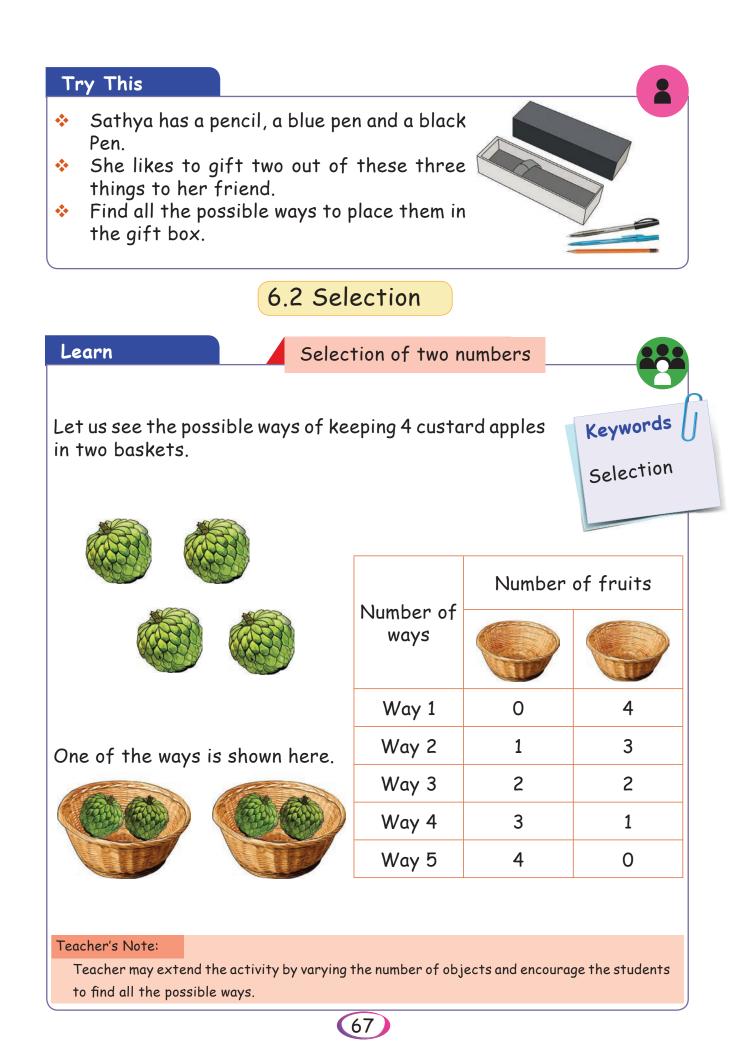
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#### Teacher's Note:

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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 .

	Pot 1			Pot 2
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	

# 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.



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# 6.3 Collection of Data

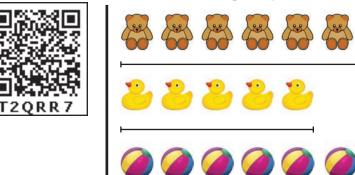
Travel Through Collection of data through measurement.

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:

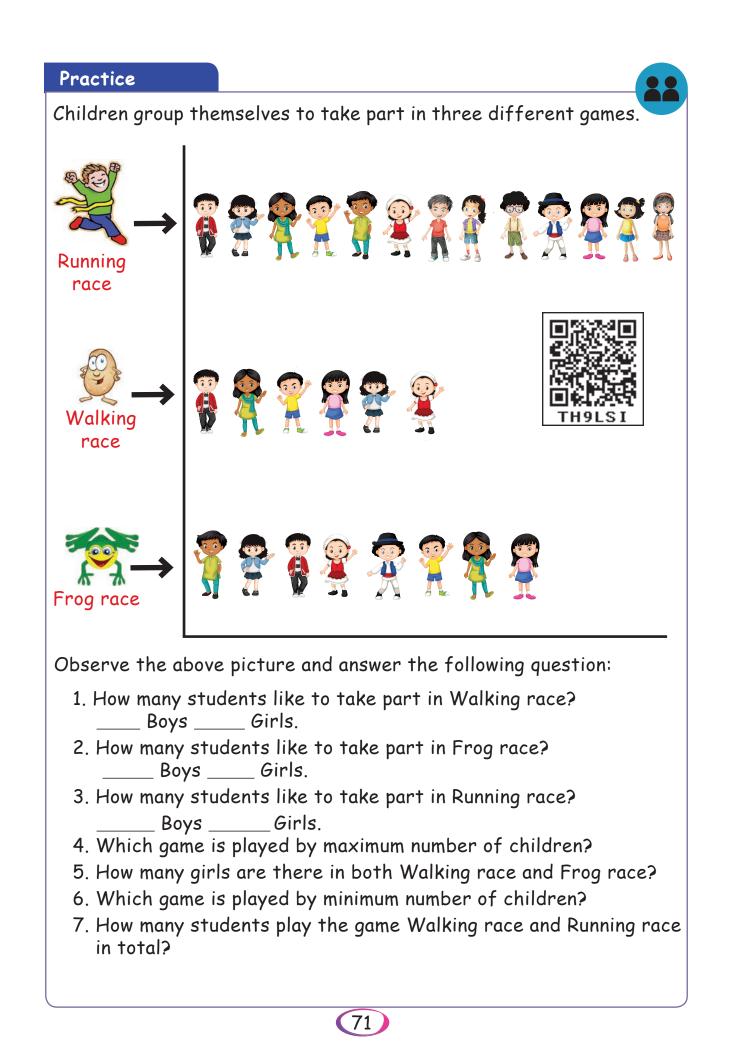
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- 1. Which toy is most in number? How many is that item?
- 2. Which toy is found to be least in the shop?
- 3. Can you place the rocket and lorry toys in the same shelf? Discuss.



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# Primary Mathematics - Class II (Term 1)

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Notes

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