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STANDARD ONE

TERM - I

VOLUME 2

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MATHEMATICS





MATHEMATICS

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E-BOOK



EVALUATION

Unit 1 Geometry

1.1 Comparisons

Travel through

Keywords

Top - Bottom	Above - Below
Inside - Outside	Near - Far
On - Under	Big - Small



Sit sit sit
sit **inside** the class;



Jump jump jump
jump **on** the floor;



Crawl crawl crawl
crawl **under** the table;



Go go go
go **far** from the table;



Come come come
come **near** the board;



Play play play
play **outside** the class.

Teacher's note

Teacher can create a rhyme using other spatial vocabulary such as Top-Bottom, Above-Below and Big-Small.



Top - Bottom

Learn

The blue colour book is at the **top**.
The red colour book is at the **bottom**.

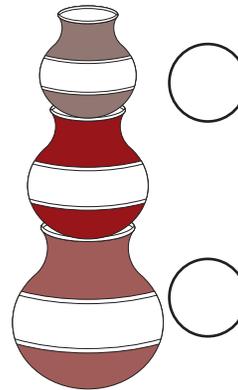


Practice

Tick (✓) the boy at the **bottom** of the slide.

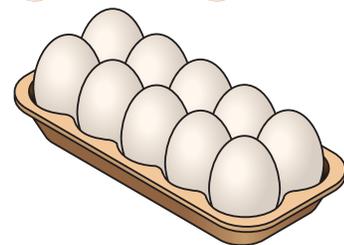
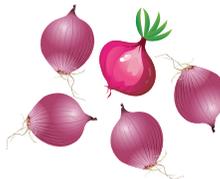


Tick (✓) the pot at the **top**.



Try this

How will you arrange these items inside the bag? Why?



Inside - Outside

Learn



Papaya has its seeds **inside**.



Cashew has its nut **outside**.

Practice

Circle the dog **inside** the kennel.



Circle the bird **outside** the nest.



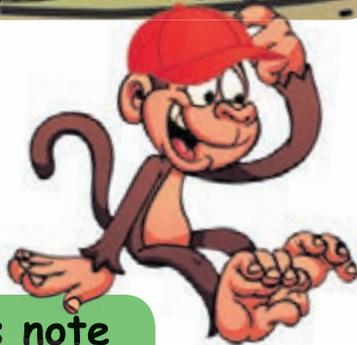
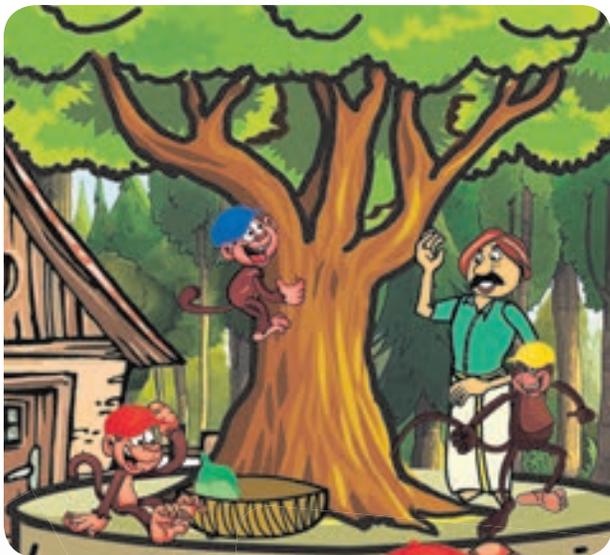
Try this

Where will you play these games? Why?



On - Under

Learn



Teacher's note

Teacher narrates the story of 'Monkeys and the Cap seller' for enhancing the spatial vocabulary, on - under.

Practice



Circle the toy seen **under** the table.

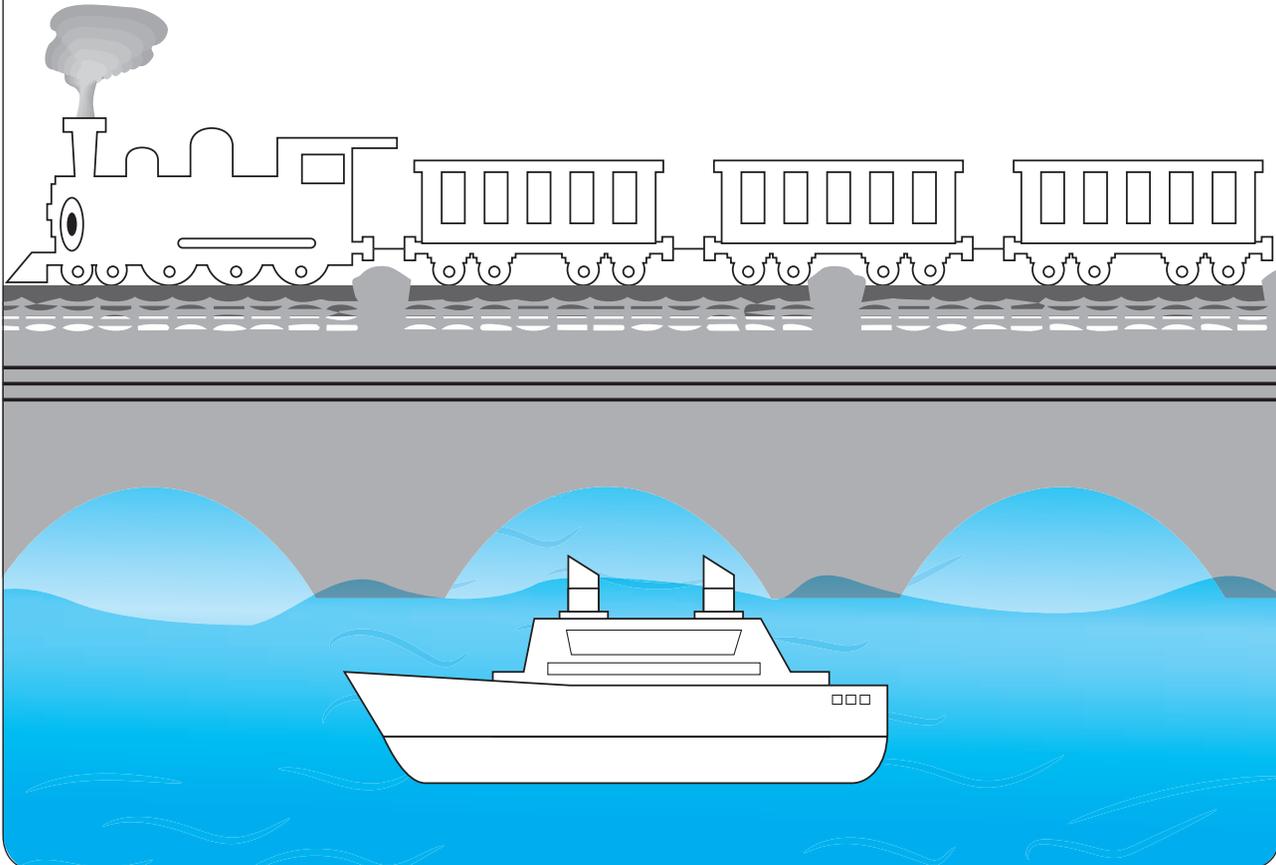
Circle the ball lying **on** the bed.



Pleasure time



Colour the train moving **on** the bridge with **brown** and the ship moving **under** the bridge with **red**.



Above - Below

Learn

Forehead is **above** the nose.
The mouth is **below** the nose.

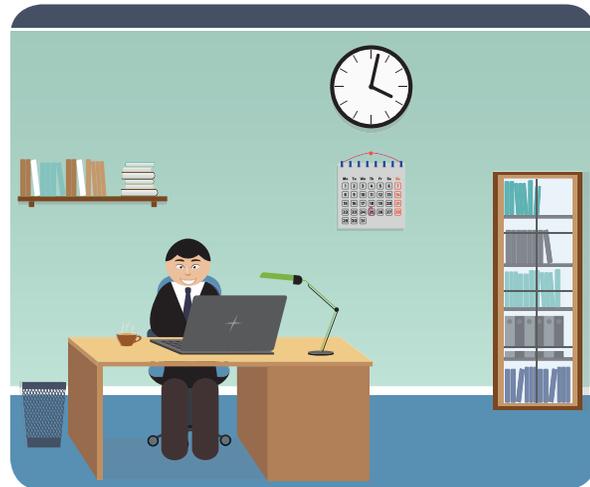


Practice

Circle the bird flying **below** the tree.

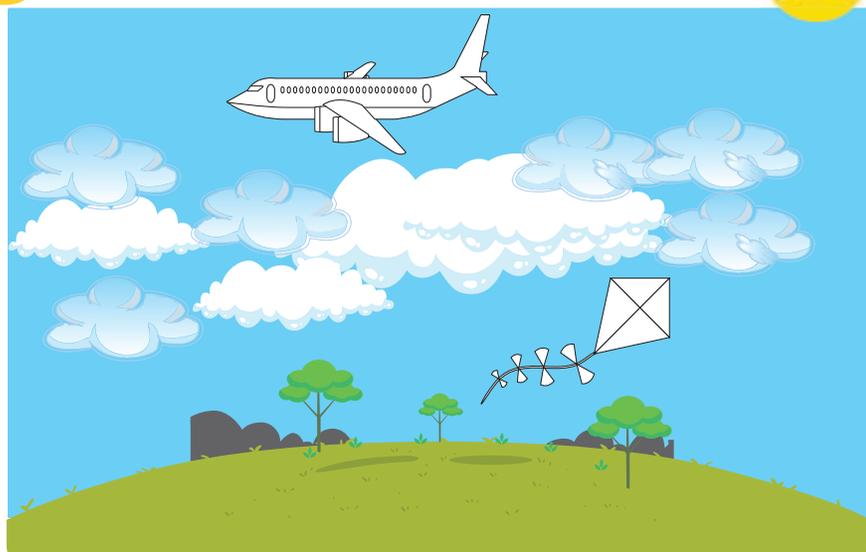


Circle the clock seen **above** the calendar.



Pleasure time

Colour the flying aeroplane **above** the clouds with **red** and the kite **below** the clouds with **orange**.



Near - Far

Learn



The bus is **near** the bus stop.

The car is **far** from the bus stop.

Practice

Colour the T-shirt of the boy who is **near** the football.



Circle the cat which is **far** from the milk bowl.



Try this

Who will win the race? Why?



Big - Small

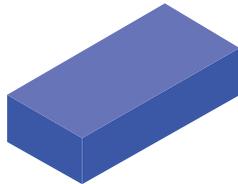
Learn



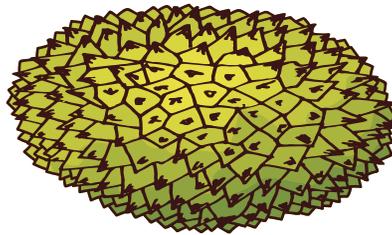
The shark is **big**. The zebra fish is **small**.

Practice

Tick (✓) the **bigger** one.

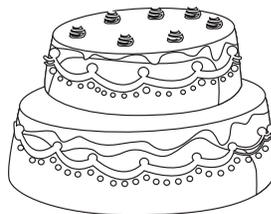


Tick (✓) the **smaller** one.



Pleasure time

Colour the **big** cake with **brown** and the **small** cake with **blue**.

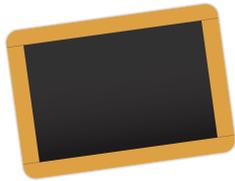


1.2 Shapes

Travel through

Keywords

Round	Corner
Flat	Edge



Teacher can display the objects similar to the things shown above and help the children to identify each object. The teacher can help them say orally the names of the objects that are round and flat by touching the objects.

Learn



The ball is **round**.



The slate is **flat**.



The book is **flat**.



The orange is **round**.

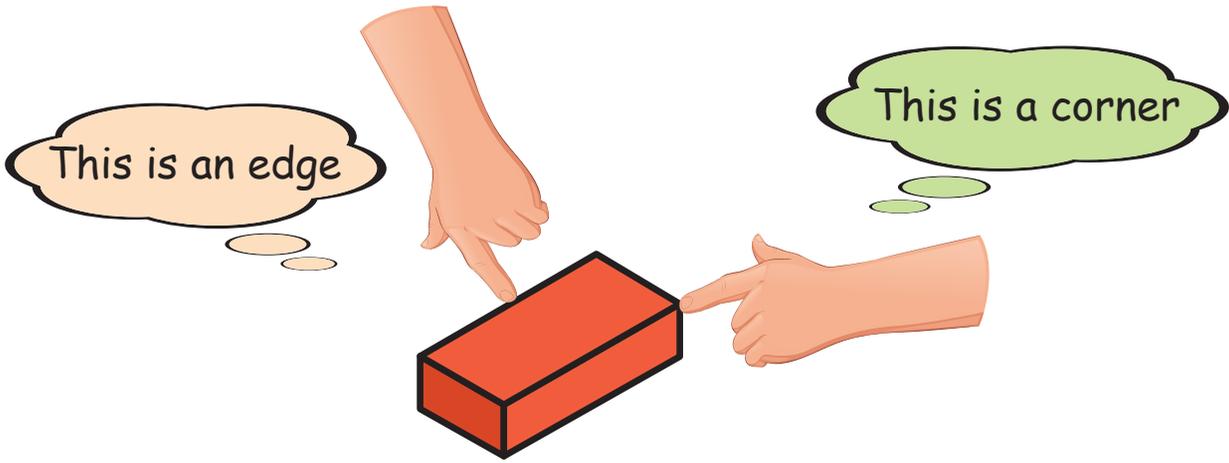
Practice

Tick (✓) the following objects as **round** or **flat**.

Object	Round	Flat
		
		

Corner, Edge

Learn



Practice

Colour the corner



Trace the edge



Think like a mathematician

Do round objects have corner?



Are there any objects that are both round and flat?

Unit 2

Numbers

2.1 Numbers from 1 to 9

Keywords

Numbers

Count

More / Less

Order

Travel through



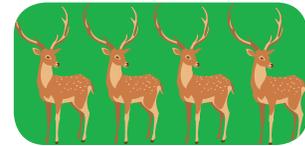
One little kitten is sitting
in the garden;



Two pretty birds are flying
over there;



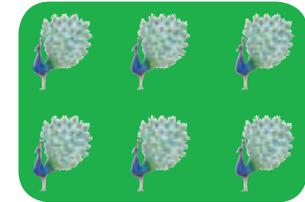
Three clever monkeys are
jumping on the tree;



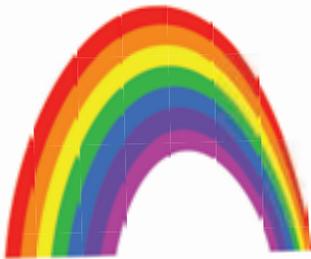
Four dotted deer are making
them glad;



Five dark clouds are joining
over the sky;



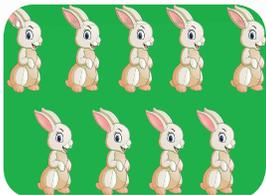
Six pretty peacocks are
dancing side by side;



Seven coloured rainbow is
bowing its head;



Eight legged spider is knitting
its web;



Nine cute rabbits are watching
all these.



Teacher's note

Teacher should make the children to sing after her with action and to count the numbers from 1 to 9 spontaneously.

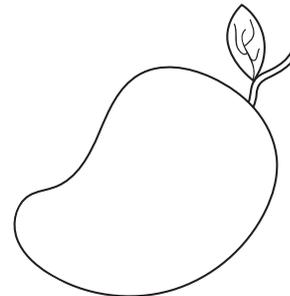
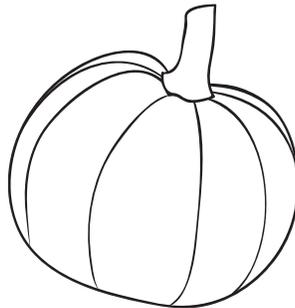
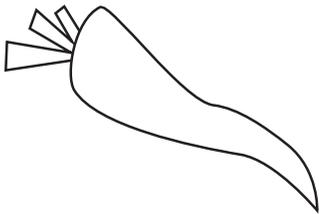
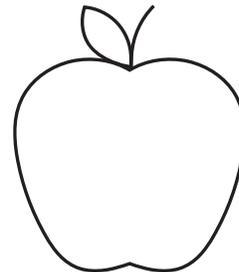
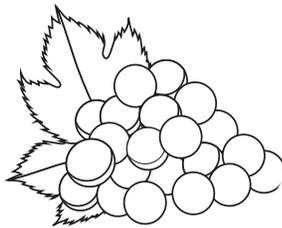
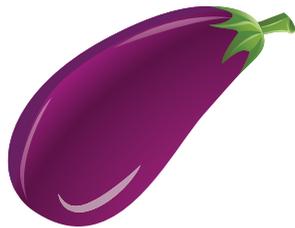
Matching one to one

Learn



Practice

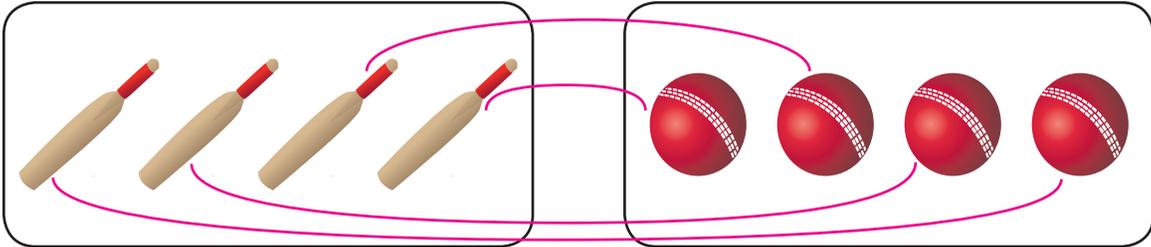
Observe the above pictures and colour the following.



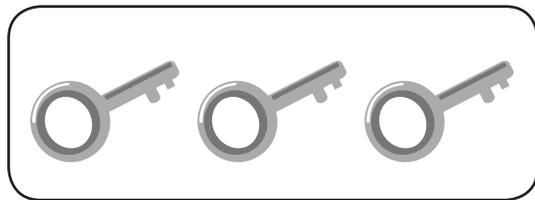
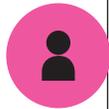
Learn



Connect the objects one to one



Practice

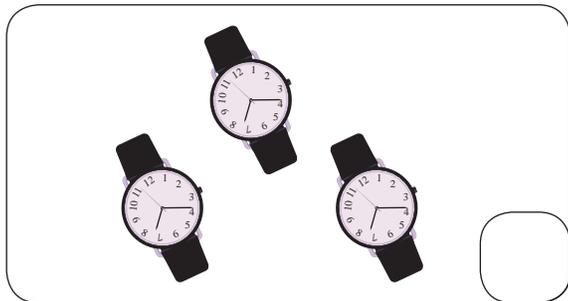
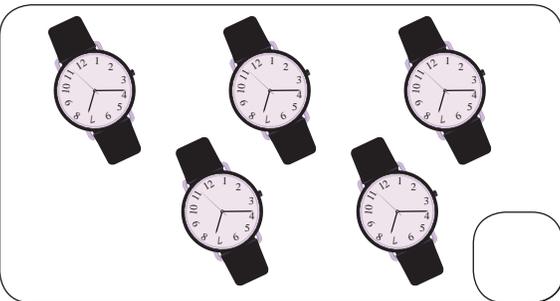


More or Less

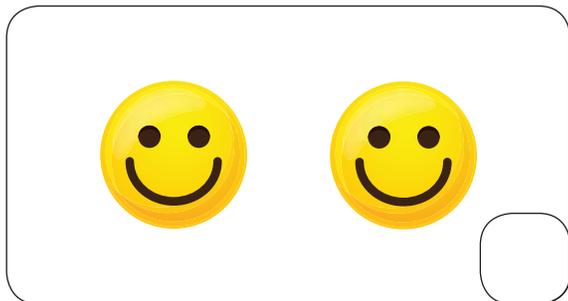
Practice



Tick (✓) the box that has **more** watches.



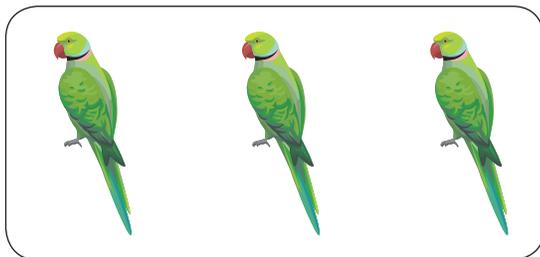
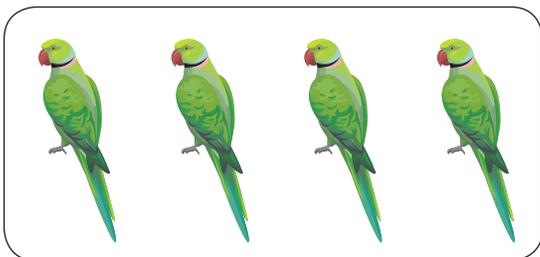
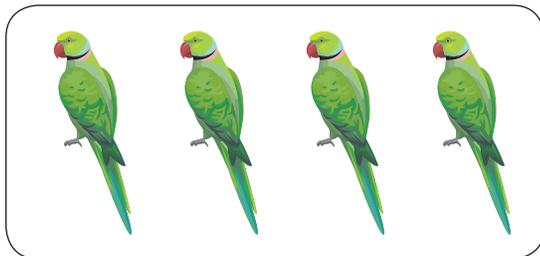
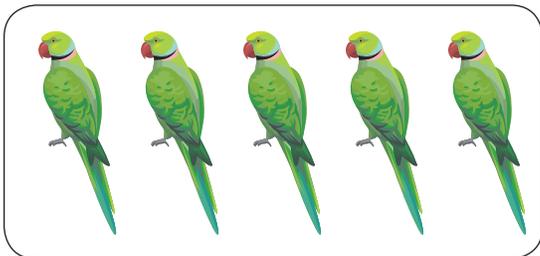
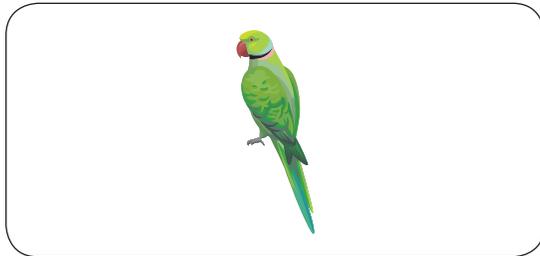
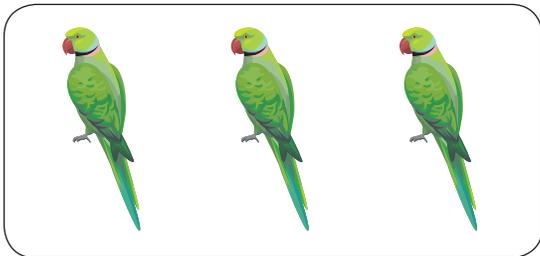
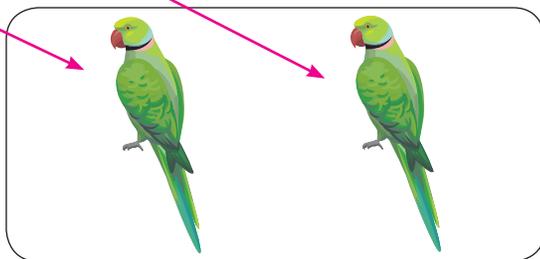
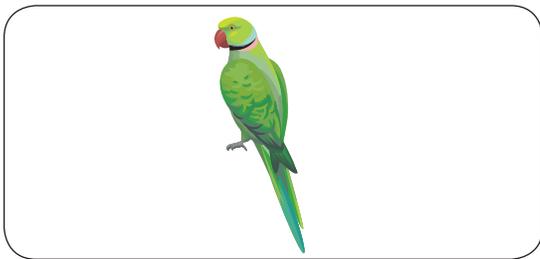
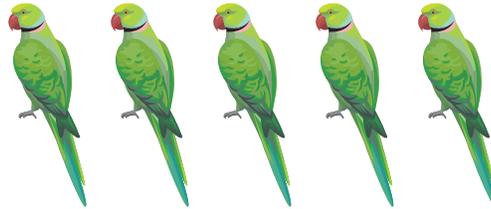
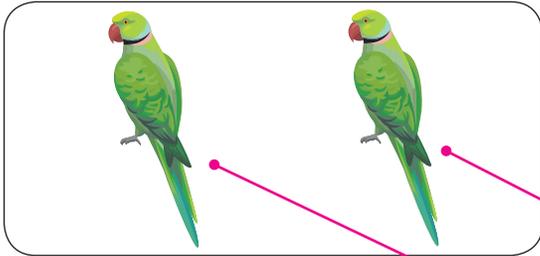
Tick (✓) the box that has **less** smileys.



Practice



Connect the parrots one to one and match them.



Number 1

Learn



Let us learn numbers from 1 to 9 in different ways.

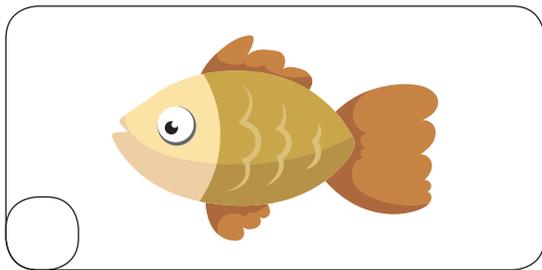
			
One bus	One bead	One finger	One

Practice



Count and write



Activity



How many tails do animals have?



Number 2

Learn



			2
Two fishes	Two beads	Two fingers	Two

Practice



Try this



Shade the stars that are numbered 2 and say the pattern in it.



List out the organs in our body that are 2 in number.



Number 3

Learn

			3
Three umbrellas	Three beads	Three fingers	Three

Practice

Look at the picture. Count that are three in numbers and circle them.



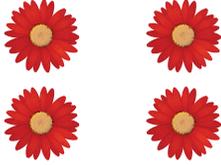
Know more

A few other names used to denote 3
triple, thrice.



Number 4

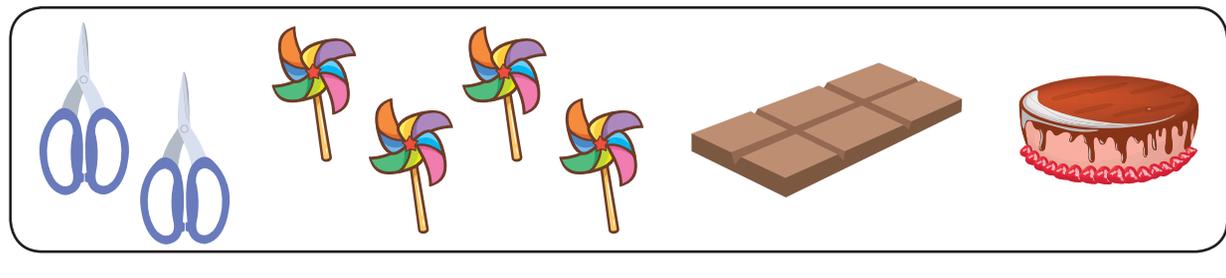
Learn

			
Four flowers	Four beads	Four fingers	Four

Practice

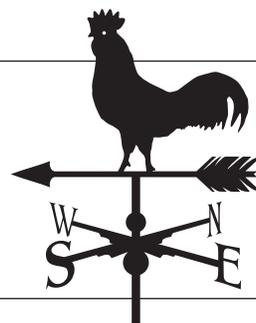
Look at the picture. Count the objects that are four in number and circle them.



Know more

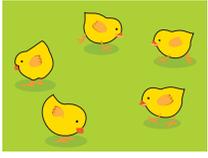
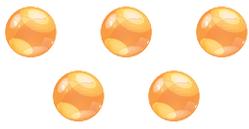


There are 4 directions north, east, west, south.



Number 5

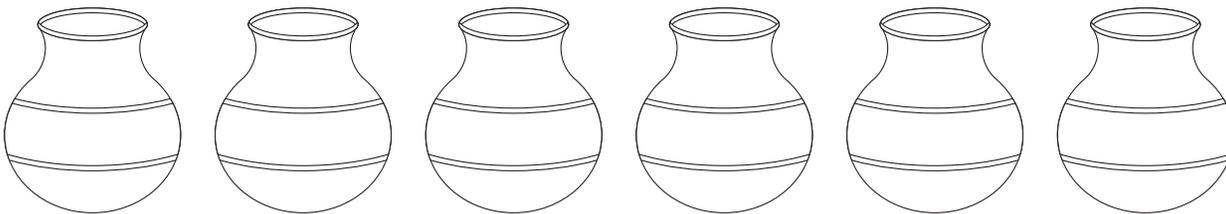
Learn

			5
Five chicks	Five beads	Five fingers	Five

Practice

Colour any five pots.



How did you choose them?

Know more

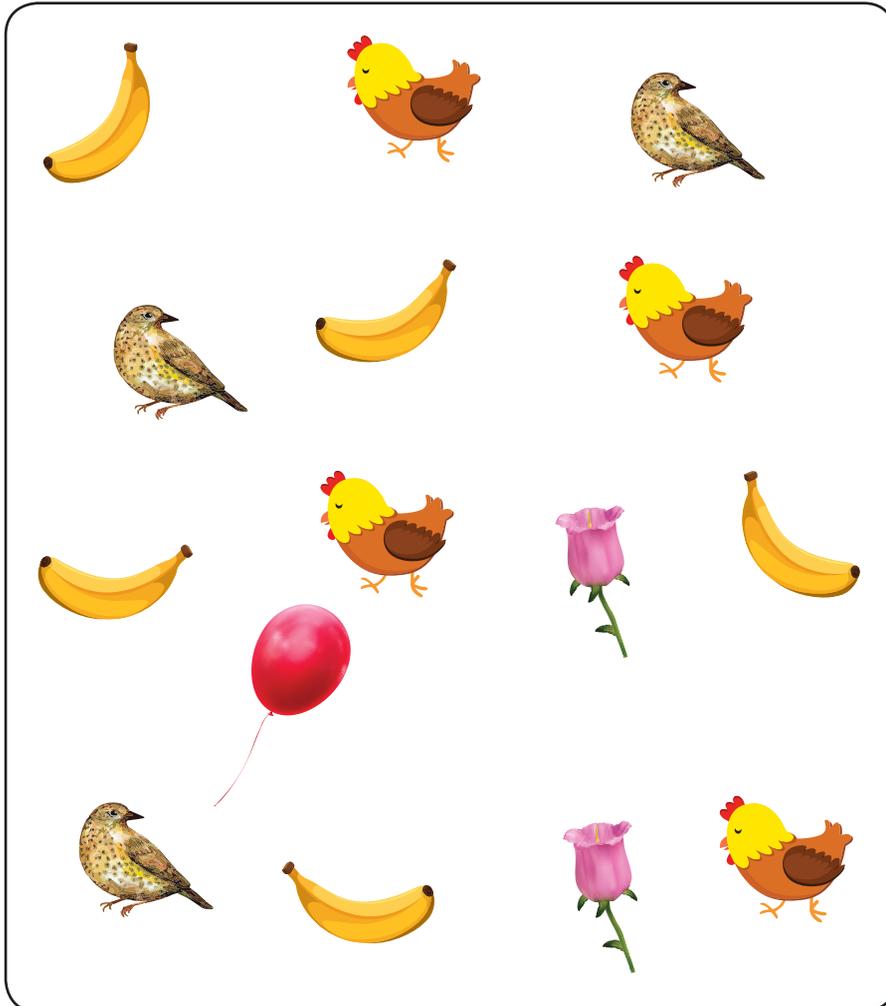
The five sense organs in our body
eyes, nose, tongue, ears, skin.



Practice



Look at the picture. Observe how many times each object is present. Write its count in the blank against the object.



Activity



Keep some beads on the table. Ask the students to pick up the number of beads as instructed by the teacher and assess their counting.

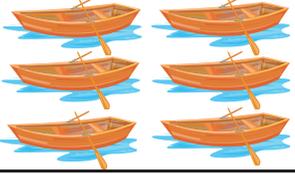


Teacher's note

Use only numbers from 1 to 5.

Number 6

Learn

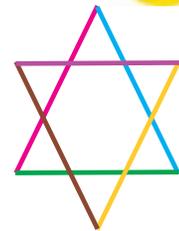
			6
Six boats	Six beads	Six fingers	Six

Practice

Activity

Make the star with sticks similar to the picture given.
How many sticks you need?



Try this

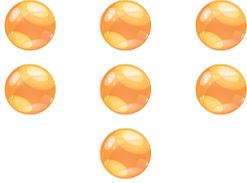
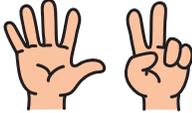


Underline the six lettered words.

parrot boat finger teacher pencil
 colour sharpener bead eraser banana

Number 7

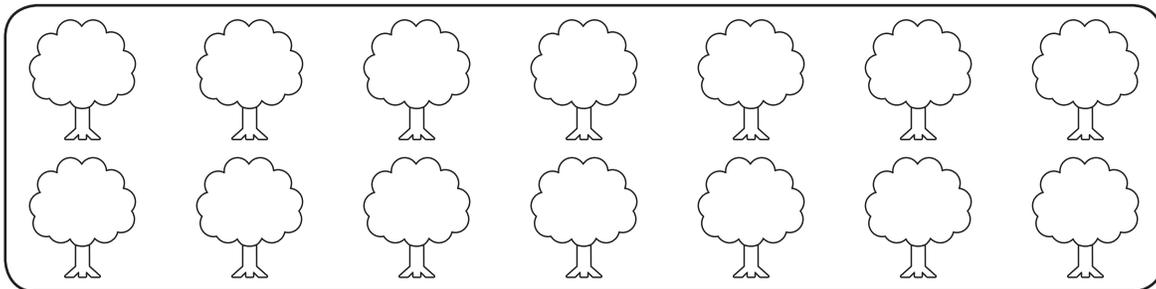
Learn

			
Seven birds	Seven beads	Seven fingers	Seven

Practice

Colour any seven trees.



How did you select these ?

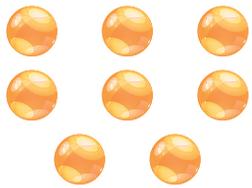
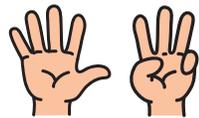
Activity

How many colours are there in the rainbow?
Draw your own.



Number 8

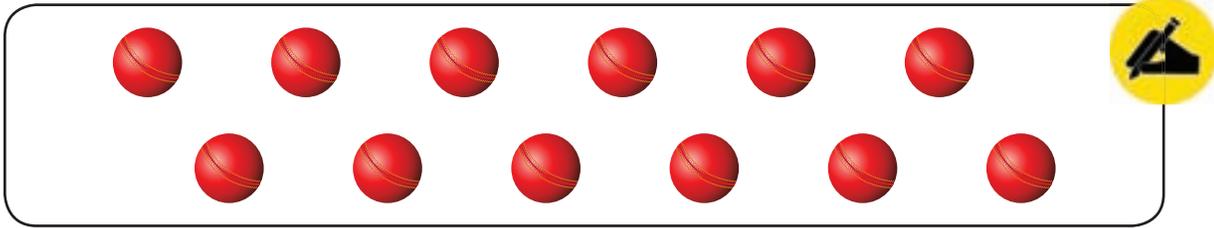
Learn

			8
Eight starfishes	Eight beads	Eight fingers	Eight

Practice

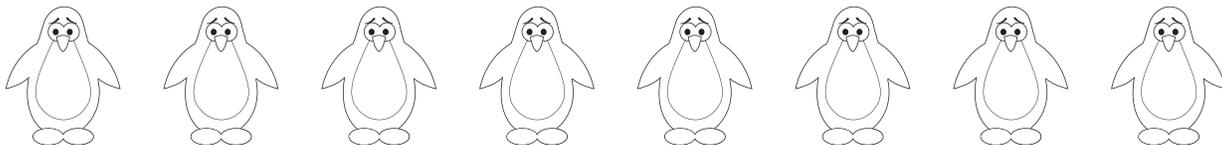
			

Circle a group of eight balls. Is there any other way of selection?



Activity

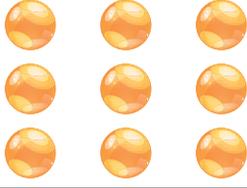
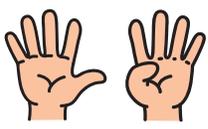
Shade all the penguins with black colour.



How many penguins did you shade?

Number 9

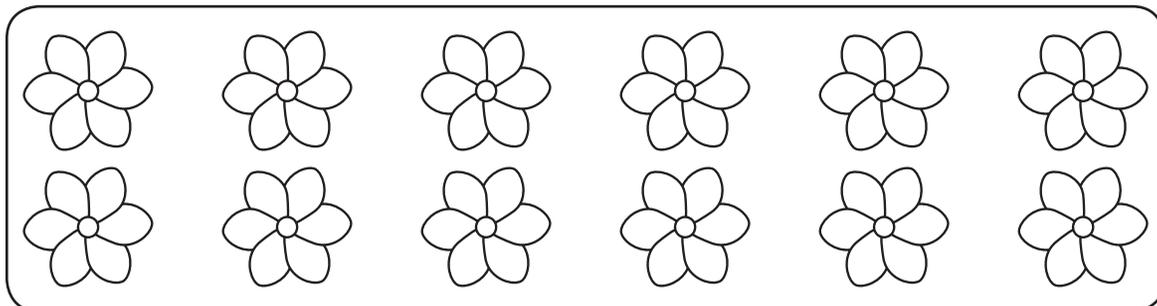
Learn

			9
Nine pencils	Nine beads	Nine fingers	Nine

Practice

Colour any nine flowers.
Suggest one more way of colouring.



Draw the tail to the kites with number nine.



Pleasure time



Count the pictures and circle their correct number.

	8	7	9
	5	6	8
	2	3	4
	6	7	5
	5	4	8
	2	1	3
	2	3	1

Comparison

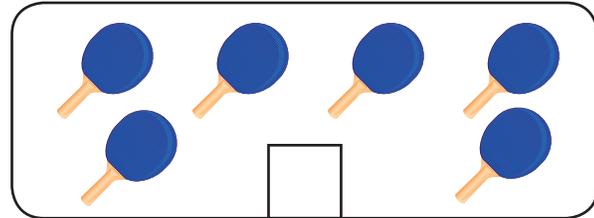
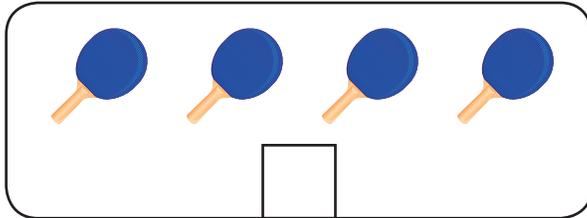
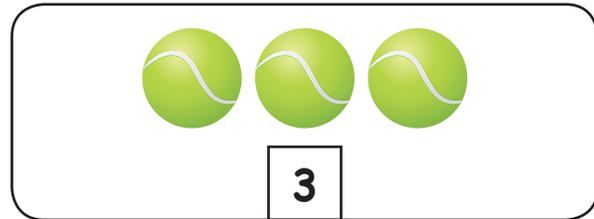
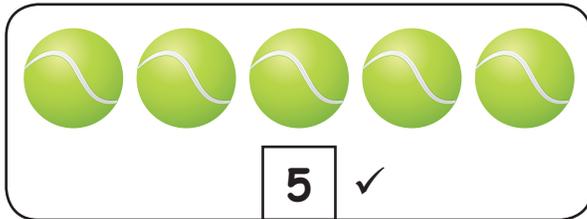
Bigger Number - Smaller Number



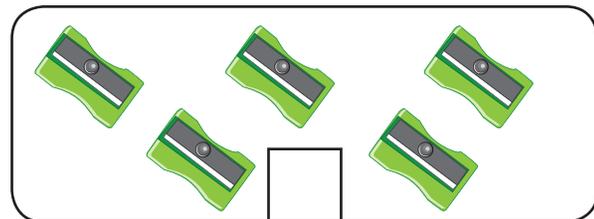
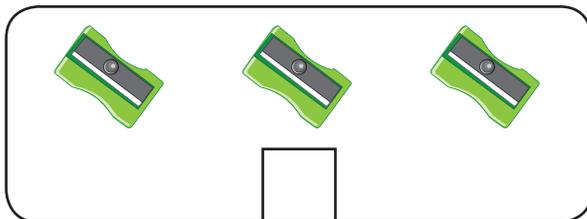
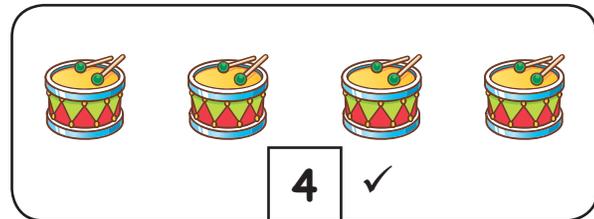
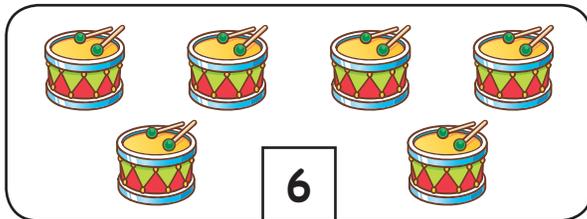
Practice



Write the Count in and Tick (✓) the bigger number



Write the Count in and Tick (✓) the smaller number



Pleasure time



• Circle the Bigger number:

a) 7 , ⑧ b) 5 , 6 c) 9 , 4 d) 1 , 3

• Circle the Smaller number:

a) ①, 5 b) 6 , 4 c) 8 , 3 d) 7 , 9

Forward - Backward

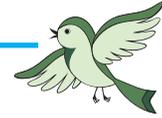
Learn



→ Forward

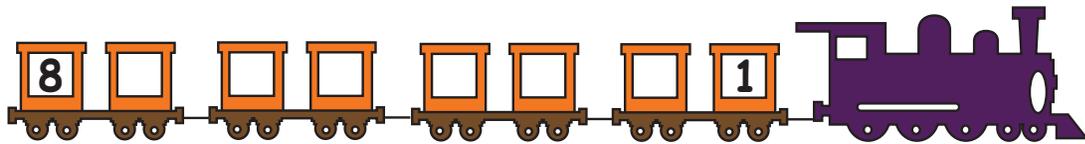


← Backward

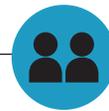


Try this

Fill in the missing numbers in the given trains.



How are the numbers arranged in the two trains from the engine?



Practice

After



Before



Between



Ordinal numbers

Travel through

Look at the Fruit Babies on the stage



Oral Questions:

1. Name the fruit-baby standing in first position.
2.  is standing in the _____ position.
3. Name the fruit-baby standing in the 7th position.
4.  is standing in the _____ position.
5. Which fruit-baby do you like the most? Why?

Practice

3rd: 

8th: 

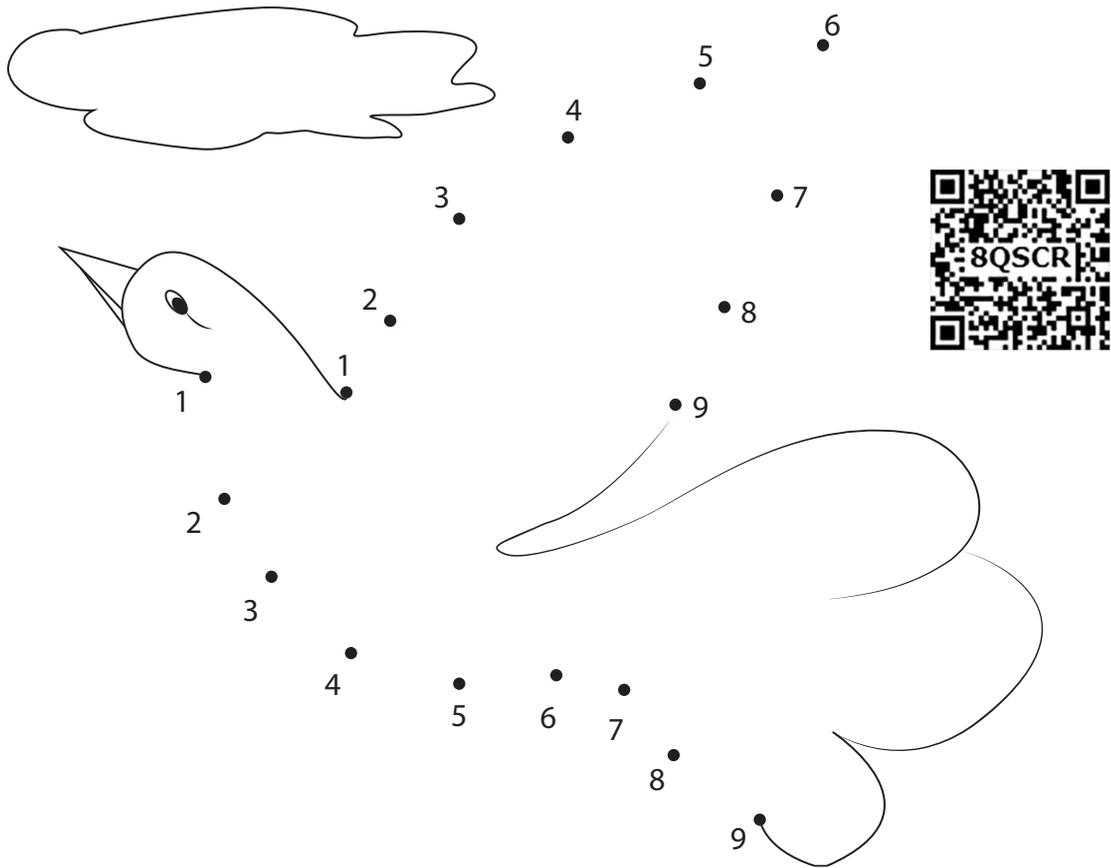
6th: 

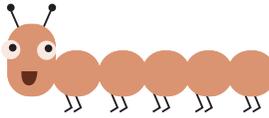
7th: 

Pleasure time



1. Join the dots in order and colour the picture.



2. Form the picture like  using bindhis.

4 bindhis 

3 bindhis 

5 bindhis 

9 bindhis 

7 bindhis 



3. Frame the numbers 1 to 9 by using match sticks.

The number 2 can be framed as . Try other numbers.

4. Colour the boxes with nine different colours.

Postion	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
Colours									

Colour the boxes with the specified position.

9th 2nd 8th 1st 4th

Slide and Ladder

Game



Objective:

1. To be familiar with numbers from 1 to 6.
2. To inculcate moral values.

Materials required: A dice, different coloured buttons.

Method:

1. Students can play alone or in a group of two or more.
2. Each player should throw the dice and move their button in the game chart from their starting point.
3. Throwing the dice should be done in rotation.
4. Whenever they reach the bottom of the ladder, they should climb up and when they reach the head of the slide, they should come down to the bottom of the slide.
5. The player who reaches the end will be the winner.



2.2 Addition



Keywords

- Add
- Total
- Altogether
- More

Travel through



Teacher's note

Teacher can extend the story up to number 9.

Combine together

Learn

Addition means combining or putting things together.

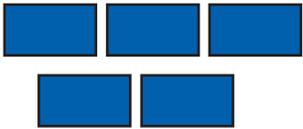


+ is the sign for addition.

	and		makes	
	+		=	

Practice

Count and Draw together

 3	+	 1	=	 4
 4	○	 1	=	○
 ○	○	 ○	=	○

Practice



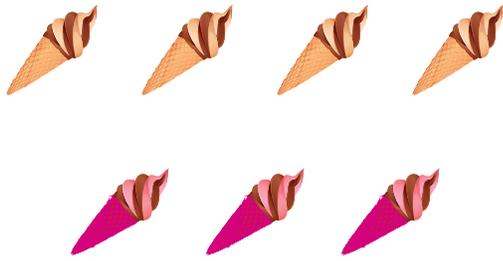
Add and write

(5)	$+$	(2)	$=$	(7)
\bigcirc	$+$	\bigcirc	$=$	\bigcirc
\bigcirc	$+$	\bigcirc	$=$	\bigcirc
\bigcirc	$+$	\bigcirc	$=$	\bigcirc
\bigcirc	$+$	\bigcirc	$=$	\bigcirc

Practice

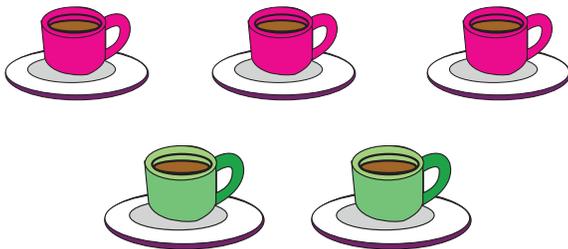
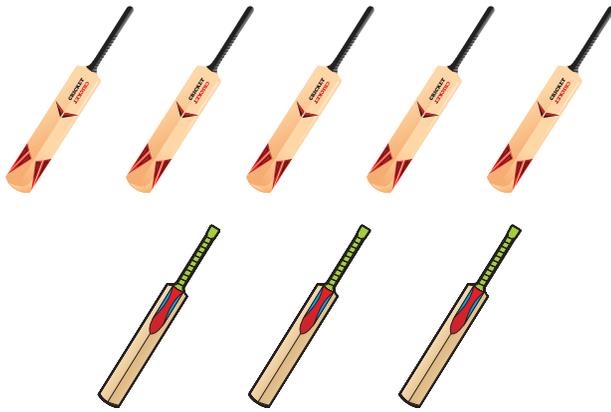


Write addition facts



$$4 + 3 = 7$$

$$3 + 4 = 7$$



Think like a mathematician



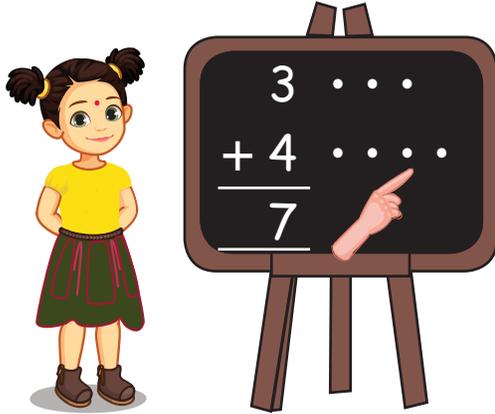
Addition facts of 3
 $2 + 1$ and $1 + 2$

Find all addition facts of 5.
 Find all addition facts of 6.

Learn



Addition using beads



$$\begin{array}{r} 5 \\ + 1 \\ \hline 6 \end{array}$$

Practice



$\begin{array}{r} 2 \\ + 3 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 3 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 4 \\ + 5 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 3 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 1 \\ + 7 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 4 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 4 \\ + 2 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + 2 \\ \hline \\ \hline \end{array}$

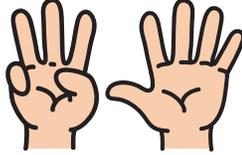
Learn



Addition using fingers



$$3 + 5$$



$$\begin{array}{r} 3 \\ + 5 \\ \hline \\ \hline \end{array}$$



8

Practice



$$2 + 3 = \boxed{5}$$

$$\begin{array}{r} 2 \\ + 3 \\ \hline 5 \\ \hline \end{array}$$

$$4 + 4 = \boxed{}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline \\ \hline \end{array}$$

$$5 + 1 = \boxed{}$$

$$\begin{array}{r} 5 \\ + 1 \\ \hline \\ \hline \end{array}$$

$$2 + 7 = \boxed{}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \\ \hline \end{array}$$

Pleasure time



Add and tick (✓) the correct answer.

$2 + 3$	3	5	6
$1 + 5$	4	1	6
$3 + 4$	3	7	4
$7 + 2$	9	1	7
$4 + 4$	7	4	8
$6 + 3$	6	9	3

Colour two numbers which make 8.

4	1	3	7	6
1	2	6	5	4
9	2	3	7	5

Colour two numbers which make 9 in different ways.

4	1	5	3	8
3	4	6	2	7



Try this

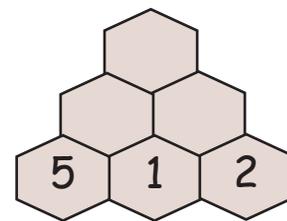
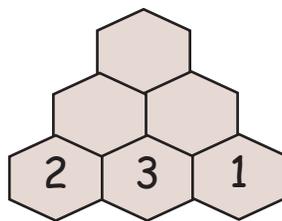
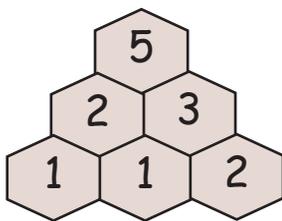


Circle the numbers which give a sum of 9.

1	8	2	6
4	4	1	9
6	5	7	2
3	6	9	1

Mind math

Look at the first one and do the rest.



Mind math (To be done orally).



1. Akilan has 4 pencils. Mukilan gives him 2 more. How many pencils does he have **totally**?
2. There are 5 flowers in a plant and 3 flowers are there in another plant. How many flowers are there **altogether**?
3. Ruby's father gave her 6 chocolates and her mother gave 2 chocolates for her birthday. **Totally** how many chocolates does Ruby have in her hand?

Think like a mathematician

1. Pick a pair from the above numbers. Write addition fact for it.

2. Pick another pair of numbers. Write addition fact for it.

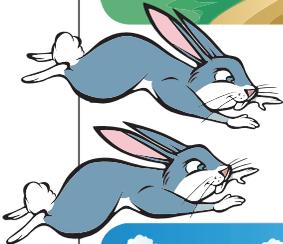
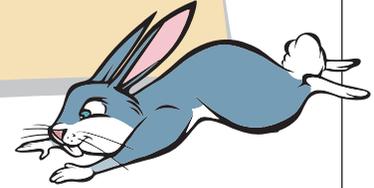
3. Keep doing it. How many different answers will you get?

2.3 Subtraction

Travel through

Keywords

- Take away
- Left
- Subtract
- Difference
- Less



Teacher's note

Teacher narrates the above pictures for enhancing the vocabularies such as **difference**, **less**, **move away**, **go away** to denote subtraction.

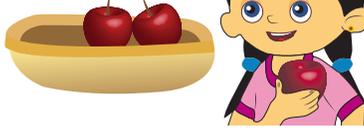
Take away

Learn

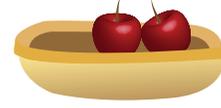
Subtraction means to 'take away'.



From

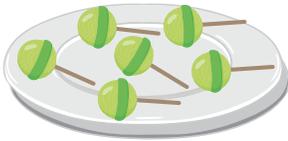


take away

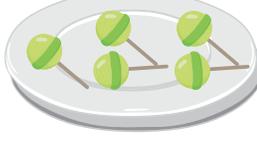


left

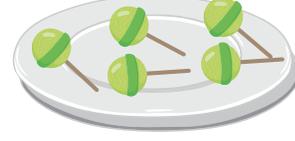
Practice



From



take away



left



From



Move away



left



From



go away



left



From



fly away

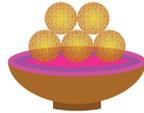


left

Subtract

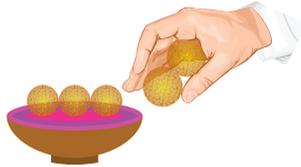
Learn

' - ' is the sign of subtraction.



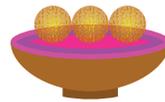
5

-



2

=



3

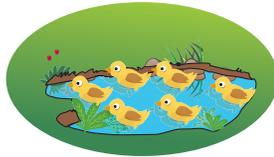
Practice



-



=



-



=



-



=



-



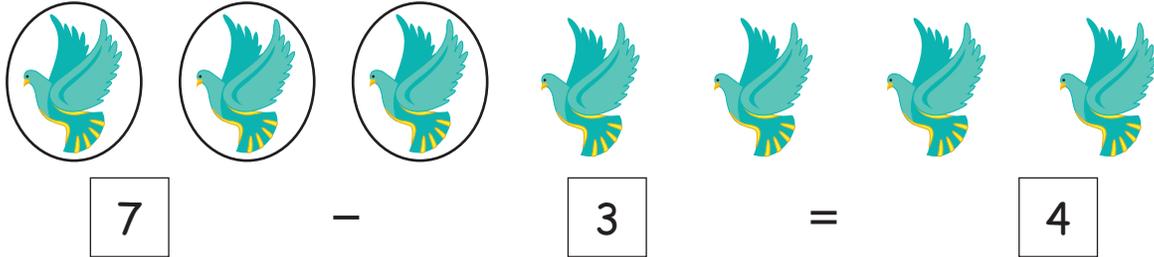
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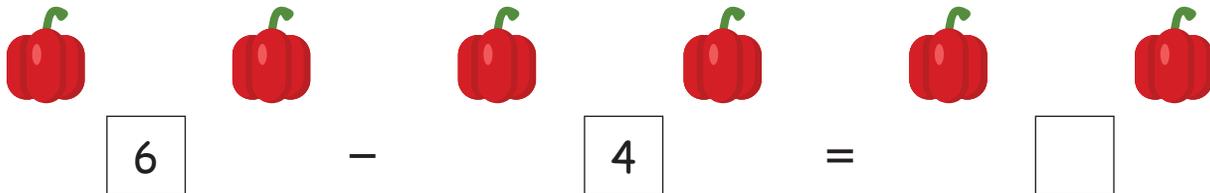
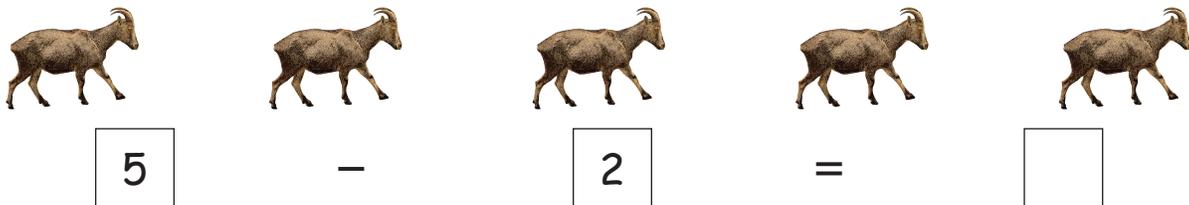
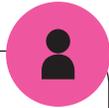
Learn



Complete the subtraction fact by circling.



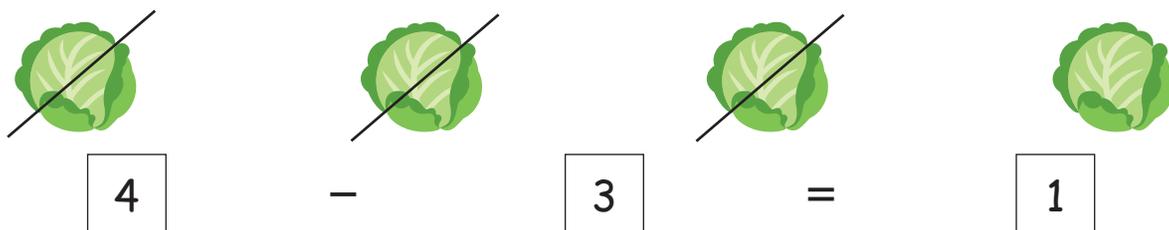
Practice



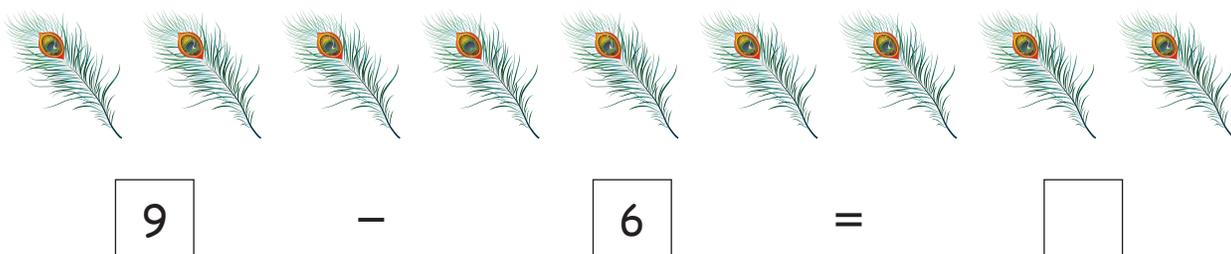
Learn



Complete the subtraction fact by striking.

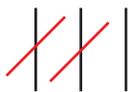


Practice



Subtraction using lines

Learn

$$3 - 2 = \boxed{1}$$


$$\begin{array}{r} 3 \\ - 2 \\ \hline 1 \end{array}$$



Practice

$\begin{array}{r} 6 \\ - 1 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 2 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 4 \\ \hline \\ \hline \end{array}$
---	---	---



Subtraction using beads

Learn

$$5 - 1 = \boxed{4}$$


$$\begin{array}{r} 5 \\ - 1 \\ \hline 4 \end{array}$$




Practice

$\begin{array}{r} 6 \\ - 1 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 2 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 4 \\ \hline \\ \hline \end{array}$
---	---	---



Try this

Create your own subtraction fact

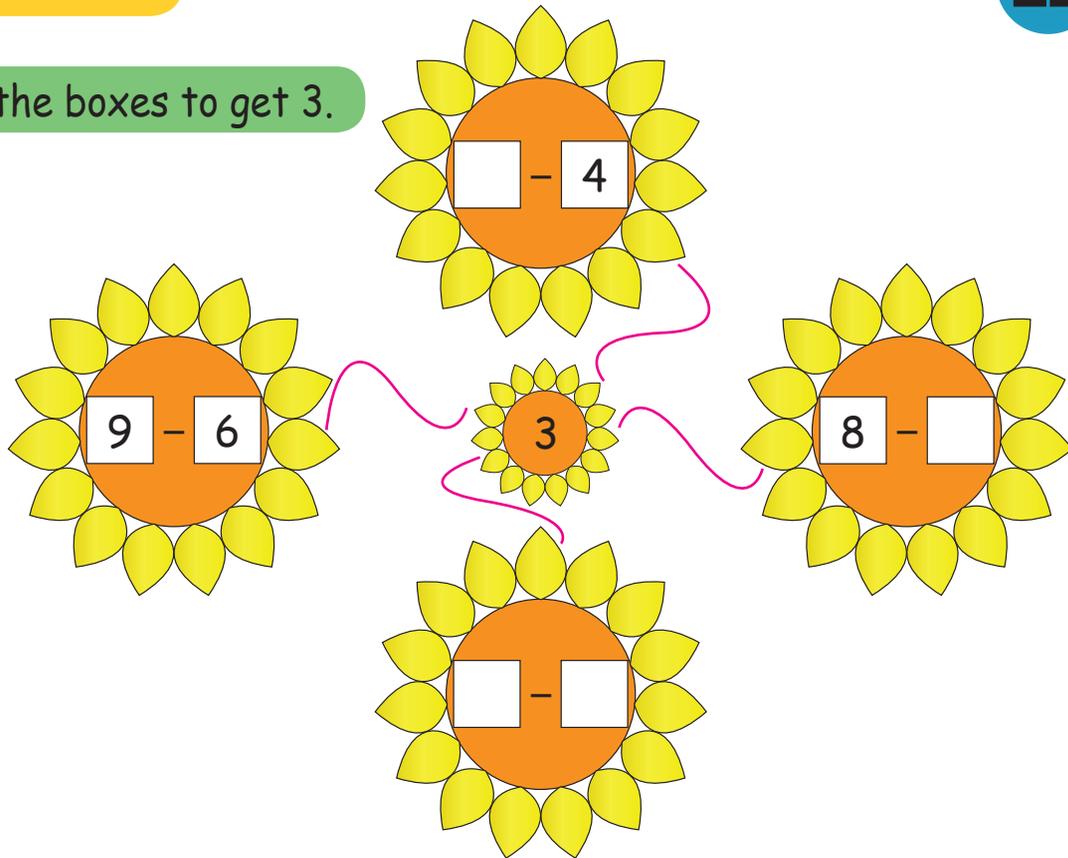
$$\square - \square = \square$$



Mind math



Fill in the boxes to get 3.



Mind math (Oral)



1. Pari bought 7 bananas. His brother ate 2 of them. How many bananas are left with Pari?
2. Mani bought 6 eggs. 3 of them were broken. How many eggs are left?
3. Thendral is 8 years old. Her sister Nila is 2 years younger than her. How old is Nila?

Think like a mathematician



How can I fill these boxes using the numbers 8, 5, 3?

$$\square - \square = \square$$

Pleasure time



Fill in the circle by $+$ or $-$

$$\boxed{3} \quad \bigcirc \quad \boxed{2} \quad = \quad \boxed{5}$$

$$\boxed{3} \quad \bigcirc \quad \boxed{3} \quad = \quad \boxed{6}$$

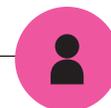
$$\boxed{4} \quad \bigcirc \quad \boxed{2} \quad = \quad \boxed{2}$$

$$\boxed{9} \quad \bigcirc \quad \boxed{2} \quad = \quad \boxed{7}$$

$$\boxed{8} \quad \bigcirc \quad \boxed{3} \quad = \quad \boxed{5}$$

$$\boxed{2} \quad \bigcirc \quad \boxed{6} \quad = \quad \boxed{8}$$

Try this



I am more than 5 and less than 8. I am not 7. Who am I ?

Activity



Aim: Creating subtraction stories.

Things needed: Flash card with subtraction facts like

$$5 - 2$$

$$4 - 1$$

$$7 - 3$$

$$9 - 4$$

Procedure:

1. Divide the class into two groups.
2. Let the students from one group pick up the card from the deck and show it to the other group.
3. Students from that group have to make a subtraction story for that card.
4. This activity can be interchanged between the groups and continued.

Teacher's note

Teacher can encourage the children to tell stories on addition and subtraction on their own. This encourages mathematical communication in the classroom.

2.4 Zero

Travel through



I am the Hero My name is Zero

Three bits of paper lying on the floor,
pick one up, put it in the bin;
Look at the floor now, two are left.

Two bits of paper lying on the floor,
pick one up, put it in the bin;
Look at the floor now, one is left.

One bit of paper lying on the floor,
pick it up, put it in the bin;
Look at the floor now, there is no paper left.

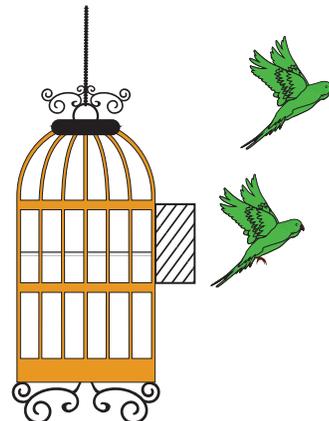
Learn



2 parrots
in the cage.



1 parrot
in the cage.



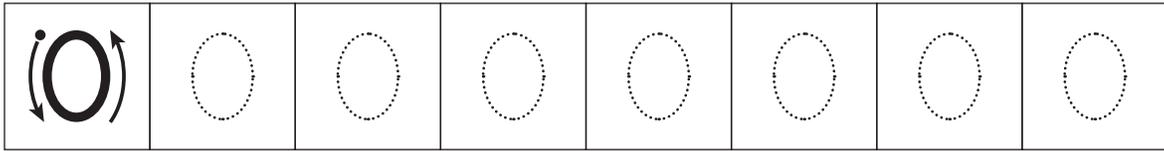
0 parrot
in the cage.

0 is also a number.

Teacher's note

Teacher can use the spindle board of SLM kit for enhancing the concept of Zero.

Practice



--	--	--	--	--	--	--	--

Pleasure time



1. Count and write the number of butterflies.

3			

2. Count and write the number of pencils.

3. Count and write the number of tomatoes.

Unit 3 Patterns

Keywords

Pattern

Sound

Colour

3.1 Patterns in sounds

Travel through

On my way to school !

Mathi is going to school. On the way, she hears many sounds. She is enjoying the patterns in it. Let us go along with her and enjoy it.



Teacher's note

- Enact the situation in the classroom by producing the above sounds.
- Encourage the children to mimic some other sounds that they have heard in their real life situations. Example: Sounds of birds, animals, vehicles, etc.,

I am happy !

Learn



Clap, clap, clap
I am happy at my home;
So, I clap, clap, clap.

Snap, snap, snap
I am happy at my school;
So, I snap, snap, snap.

Stamp, stamp, stamp
I am happy at my class;
So I stamp, stamp, stamp.

Tap, tap, tap
I am happy everywhere;
So I tap, tap, tap.



Teacher's note

- Sing the song by making the sounds.
- Further in the next rounds, while singing, the teacher should make the sounds instead of using the words clap, snap, stamp, and tap. This will add flavour to the sound pattern.

Practice

Let us clap

Teacher initiates the activity by clapping in a definite pattern.

- * 1 clap - 1 clap - 1 clap,...
- * 2 claps - 2 claps - 2 claps,...
- * 1 clap - 1 clap - 3 claps, 1 clap - 1 clap - 3 claps,...
- * 3 claps - 3 claps - 1 clap - 1 clap - 1 clap,...



Try this

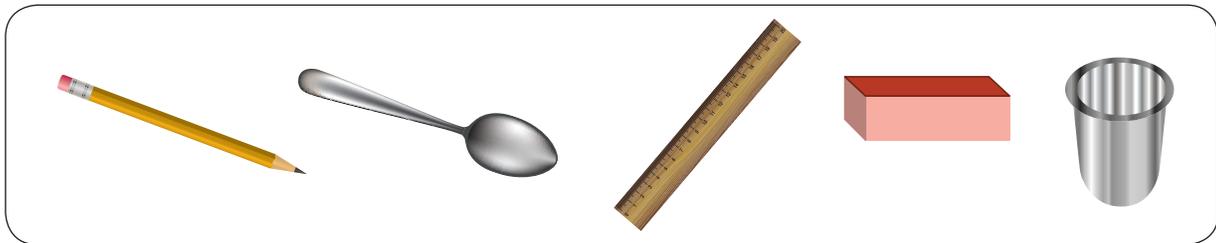


Meow and Bow-Bow are friends. They are meeting after a longtime. Think how their conversation would be like!



Activity

Act and enjoy



Aim: Creating patterns in sounds.

Things needed: Pencil, steel spoon, plastic scale, wooden duster, steel tumbler.

Procedure: By gently tapping these, make different sound patterns and enjoy. Follow the patterns given below. Try some other patterns also.

					
Number of taps	1	1	1	1	1
	2	2	2	2	2
	1	2	1	2	1



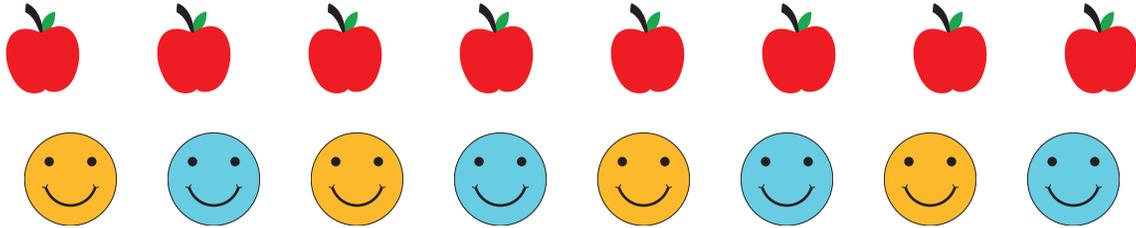
Oh! sound patterns are everywhere!
Where do you hear such patterns in sound?
Share it!



Learn



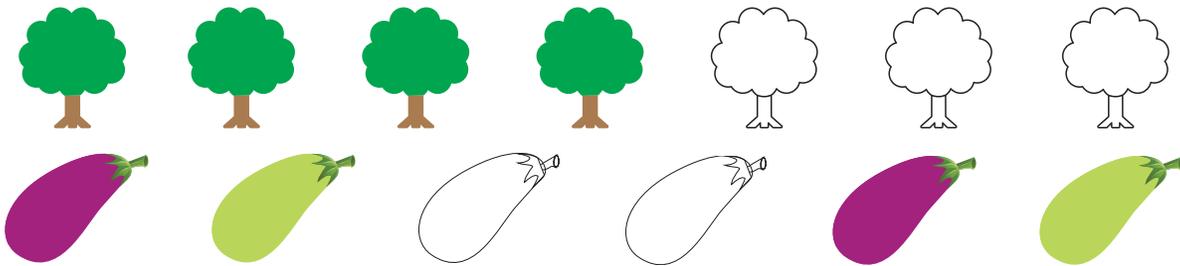
Observe and identify the pattern.



Practice



Colour and complete the pattern.



Pleasure time



Observe the pattern and choose the correct one by ticking it.

			<input type="checkbox"/>				<input type="checkbox"/>

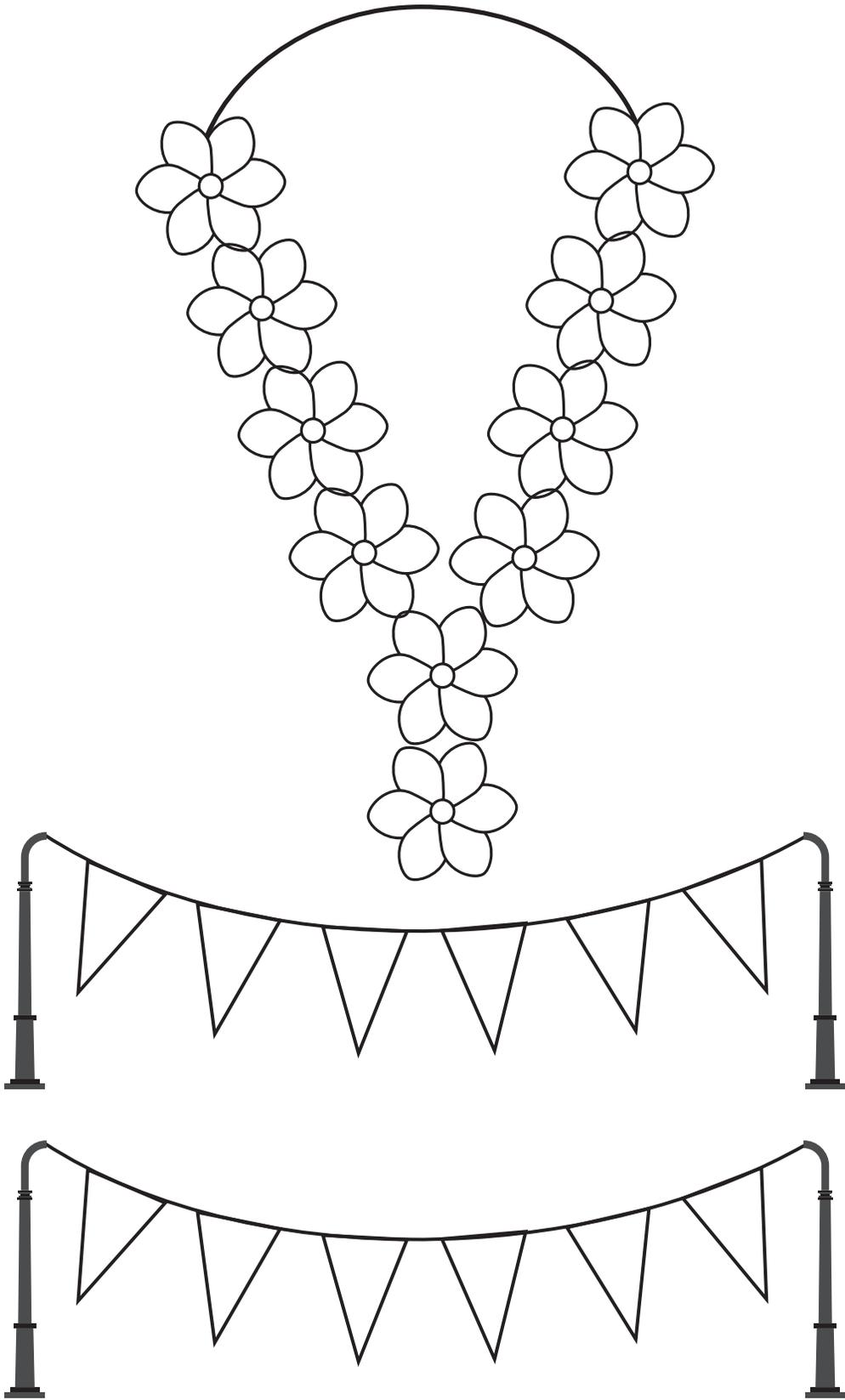
			<input type="checkbox"/>				<input type="checkbox"/>



Activity



Make a colourful Pattern on your own.



Unit 4 Information Processing

4.1 Systematic listing

Keywords

Information	Organise
Data	Group
List	Collect

Travel through

Colourful fishes



Learn

Count the number of fishes of each kind in the tank and colour them below.

Learn

Come! let us play!



Answer the following from the picture:

1. Number of children playing seven shots _____
2. Number of electric posts _____
3. Number of children sitting under the tree _____
4. Number of crows _____
5. If all the children join together in the train game, then how many will be there in the game?
6. Tell the other games that you play.

Practice

Birthday celebration



Look at the picture given above. Count and write.

	2		3
			
			
			

4.2 Organising Information

Learn



Know your relatives.

Relationship	Number of relatives
 <p>Brother</p>	
 <p>Sister</p>	
 <p>Grand Father</p>	
 <p>Grand Mother</p>	
 <p>Uncle</p>	
 <p>Aunt</p>	

Activity



Means of transport

Procedure:

1. Divide the class into small groups.
2. Discuss among the group members how each child comes to school?
3. Ask them to complete the table by marking the symbol "●" in the table.
4. Example: If 3 students come to school by bicycle, then mark the symbol "●" 3 times against the .

How do they come to school?	"●" denoting number of students	Total
		
		
		
		
		
		

Answer the following based on the data collected.



1. How do you come to school ? Tick (✓) it.



2. How many friends in your group come to school by walk?

3. Total number of members in your group .



4. Tick (✓) the means of transport which is used most in your group?



5. Tick (✓) the means of transport which is used least in your group?



Primary Mathematics – Class 1

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