# Mathematics 0



With the blessings of:

**Our Parents** 

#### Mathematics (Part-1)

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#### **Edited & Designed by:**

Editone International Pvt. Ltd.

#### Based on:

- National Education Policy 2020
- NCF 2022
- Activity Based Format
- Innovative Approach
- Learning with fun
- Eco-Friendly Paper

## Preface

Mathematics, a well arranged series of Mathematics strictly confirms to the vision of National Curriculum Framework 2022 and also meets the requirement of the NCERT latest syllabus. It is an activity-based maths textbook created to give the students a National Education Policy 2020-based interactive learning foundation in mathematics while also fostering the holistic development of learners through critical thinking and creativity.

These traits will aid the students in better understanding the fundamental ideas through play. Core educational ideas are the foundation of this textbook. The goal is to encourage youngsters to look beyond the theoretical side of arithmetic and to learn about practical applications.

The book's design emphasises effectiveness and logical progression. Through teaching and interactive learning, NEP 2020 seeks to enhance higher order thinking.

The purpose of this book's design and presentation is to reinforce mathematical concepts through the use of simple games. This book includes enough questions in accordance with the NEP 2020 criteria.

#### Salient Features of the series:

**Learning Objectives:** Learning objective shows the right path of learning to the teacher as well as students. It determines the direction of learning for effective and quality learning outcomes.

**Warm-Up:** It aids pupils in remembering lessons learnt in previous years and lets them ready for new concepts. Also, allows learners to process and explore mathematical concepts while applying, extending, and analysing information within their own unique range of understanding.

**Teacher's note:** A "Teacher's Note" is a set of instructions laid out for the teachers to follow in the classroom in order to make class interactive and discussion based.

Quick Tip: It offers suggestions on how to quickly solve the questions.

**Facts To know:** The inclusion of it gives the learner plenty of chances to investigate the information regarding the topics..

**Think Wisely:** These questions have been included to encourage learners to think, analyse and apply.

**Mental Maths:** The main goal of teaching Mental Maths to the learners is to focus on improving their arithmetic abilities through memory, practice and number manipulation.

*Maths Lab Activities:* These are provided with the intention of making maths learning efficient, engaging, pleasant, and intellectually stimulating.

This series of Mathematics books from class 1-8 contains sufficient questions for practice on each topic.

I am very appreciative of the entire staff and the management for working so hard to get this book into such a wonderful arrangement.

The books are always open to suggestions and enhancements.

Author

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## Counting

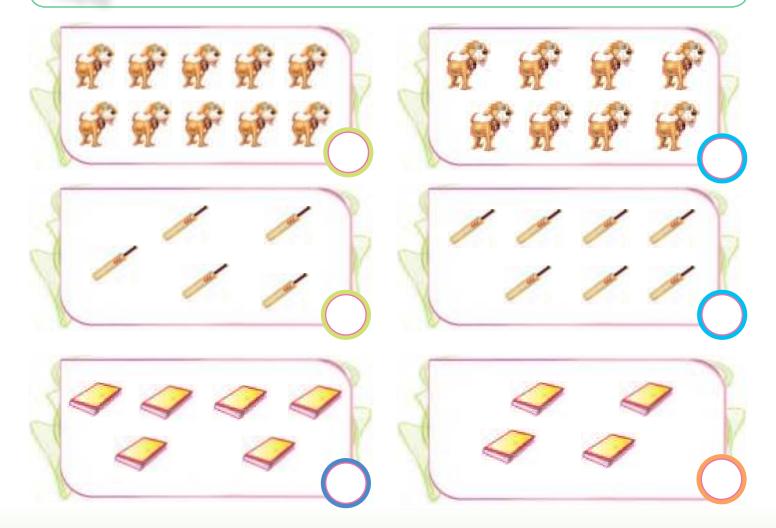


At the end of this lesson, students will be able to:

- Enumerate and read numbers upto 100.
- Identify what comes before, after and in between the numbers.
- · Organise numbers in ascending and descending order.



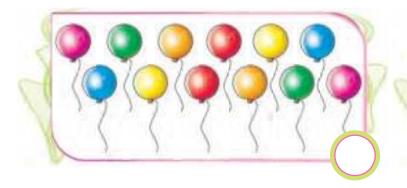
Find out which group has more objects and which has less. Write 'M' for more and L for less:



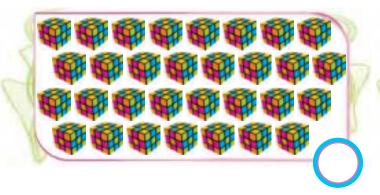


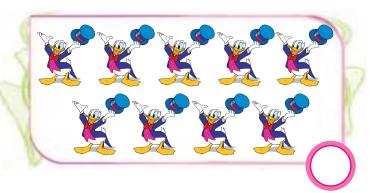


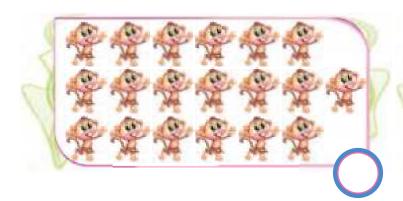


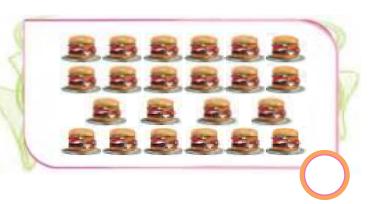




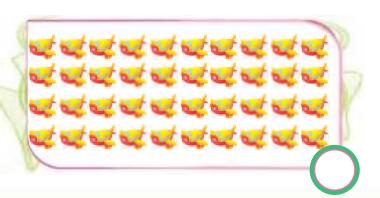








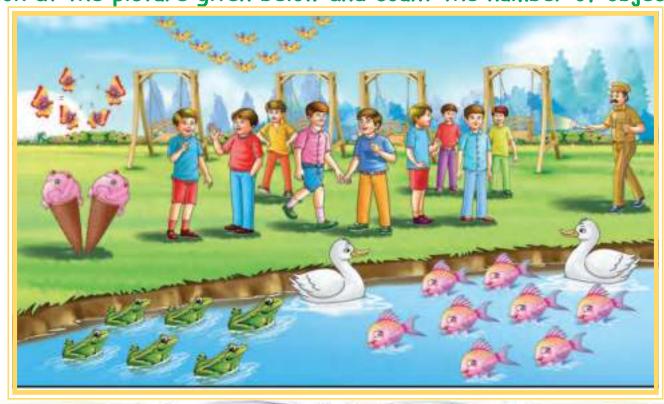








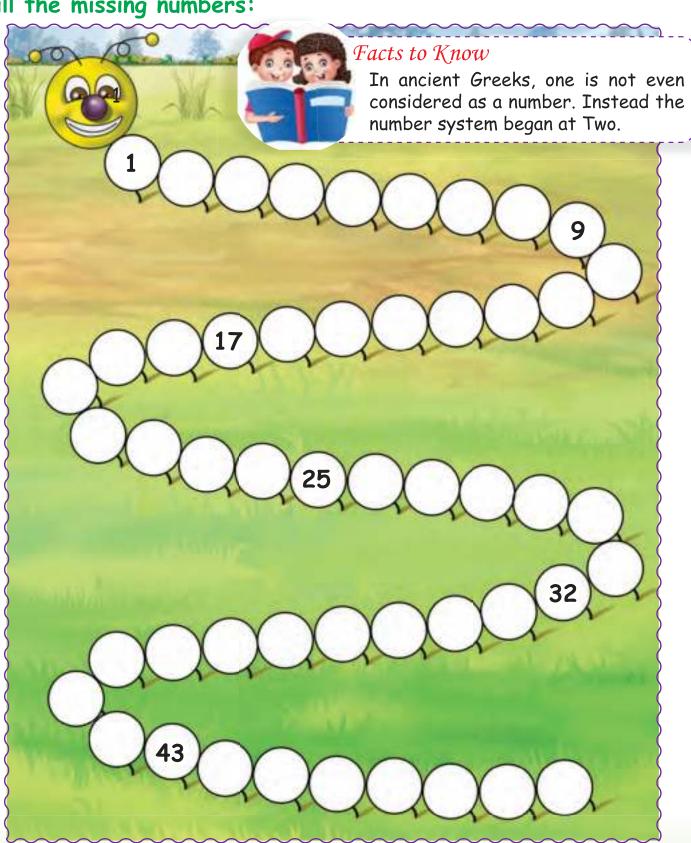
### Look at the picture given below and count the number of objects:





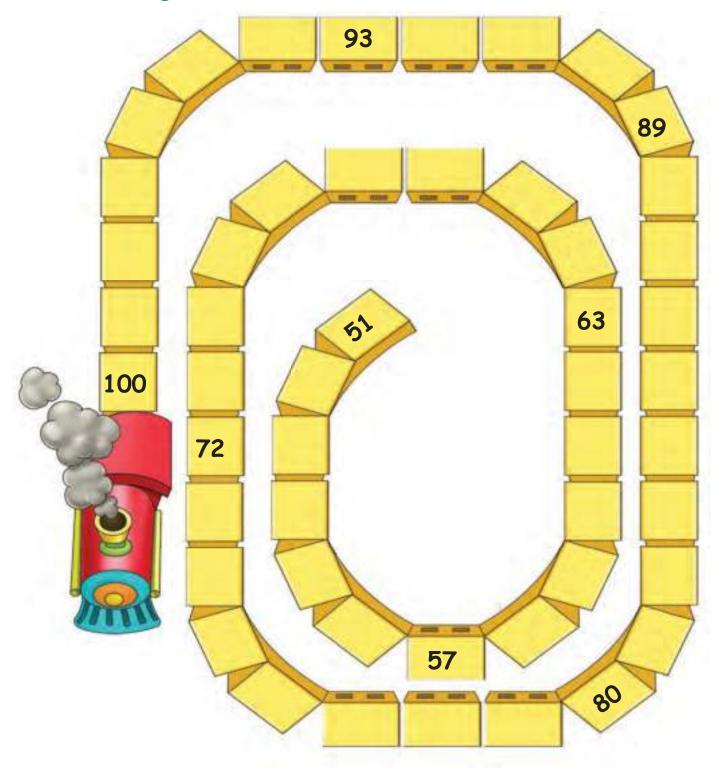


#### Fill the missing numbers:





### Fill the missing numbers:

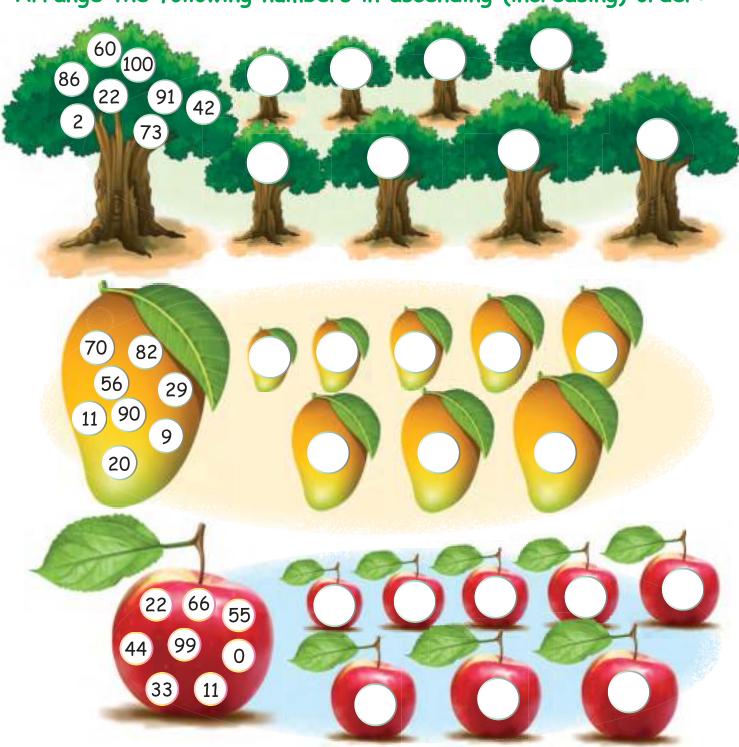








#### Arrange the following numbers in ascending (increasing) order:

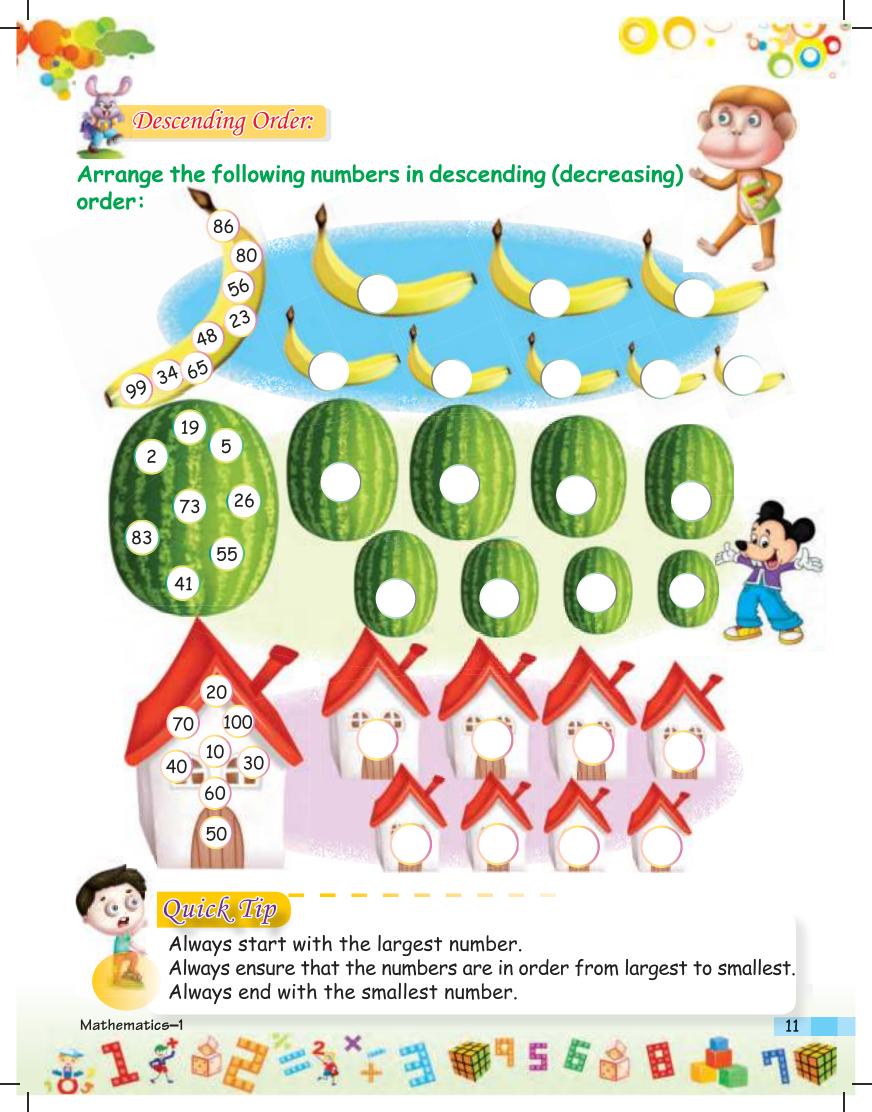


Teacher's Note:

Ascending order means, going from smaller number to bigger number. Arrange the children according to their height in a line to emphasise the concept.

10









#### Just Before-Just After - In Between

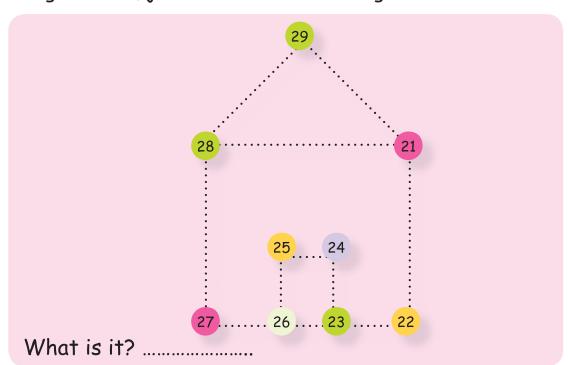
Just Before	Just After	In Between		
48 49	51 52	63 64 65		
90	22	90 92		
53	59	86 88		
29	11	22 24		
86	26	11 13		
42	9	98		
99	90	88 90		
81	84	29 31		
60	23	55 57		
98	54	42 44		



### Think Wisely

#### Join the numbered dots from 21 to 29 in sequence and complete the picture.

Starting from 21, join the dots in ascending order.





- 1. Circle the largest number.
  - 20 a.
- 14
- 9

- b. 5
- 7
- 10
- 13
- Write the number that comes in between.
  - a.
- 98 \_\_\_\_ 100 b. 14 \_\_\_\_ 16 c. 5 \_\_\_\_ 7

- d.
- 83 \_\_\_\_ 85 e. 18 \_\_\_\_ 20 f. 57 \_\_\_\_ 59
- 3. How many 5's are there in the box?

2	3	5	1	5	3
4	5	5	6	2	5







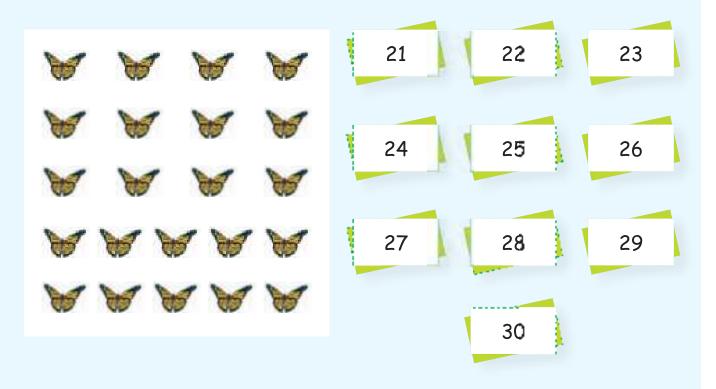


#### Materials required:

Number cards from 21 to 30 and sheets of paper.

#### Steps:

- 1. Divide the class into two teams.
- 2. Keep the material on your table.
- 3. A student from team 1 chooses a number card.
- 4. The student reads out that number to the other students of team 2, for example, 22.
- 5. Now, team 2 students will have to draw 22 butterflies on a sheet of paper and show it to his / her team members.
- 6. Team members will count and tell the number. If the answer comes out correct, then one point will be given otherwise points will be given to team 1.







## Numerals on Abacus

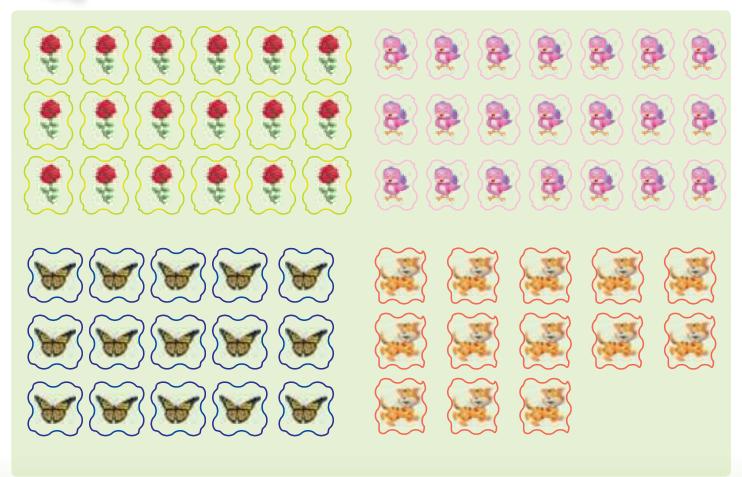


## At the end of this lesson, students will be able to:

- Know about the working on the abacus.
- Learn the place value Ones , tens and hundreds with the help of abacus.
- Count, write numerals and number names according to the beads on abacus.



Look at the picture carefully and circle the group of 10.









An ABACUS is a calculating machine, used for counting numbers.

- place value.

Abacus consist of rods. Each rod of Abacus represents a Hundreds Tens

The rod on the extreme right is **ONES** rod.

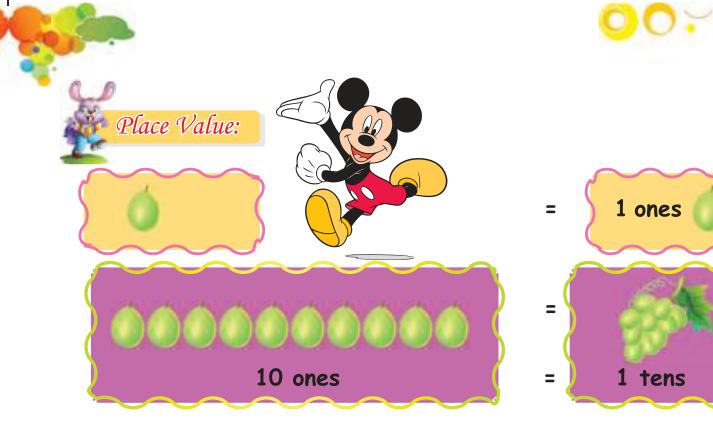
> The rod in the middle is TENS rod.

Ones

The rod on the extreme left is **HUNDREDS** rod.

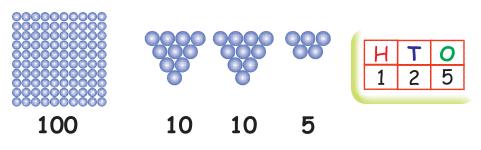
- Rod consist of beads.
- Slide the beads in the rod to represent numbers.





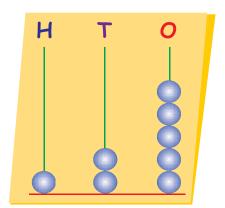


Count and write numeral and number name. Also draw the beads on the ABACUS.



Numeral: 125

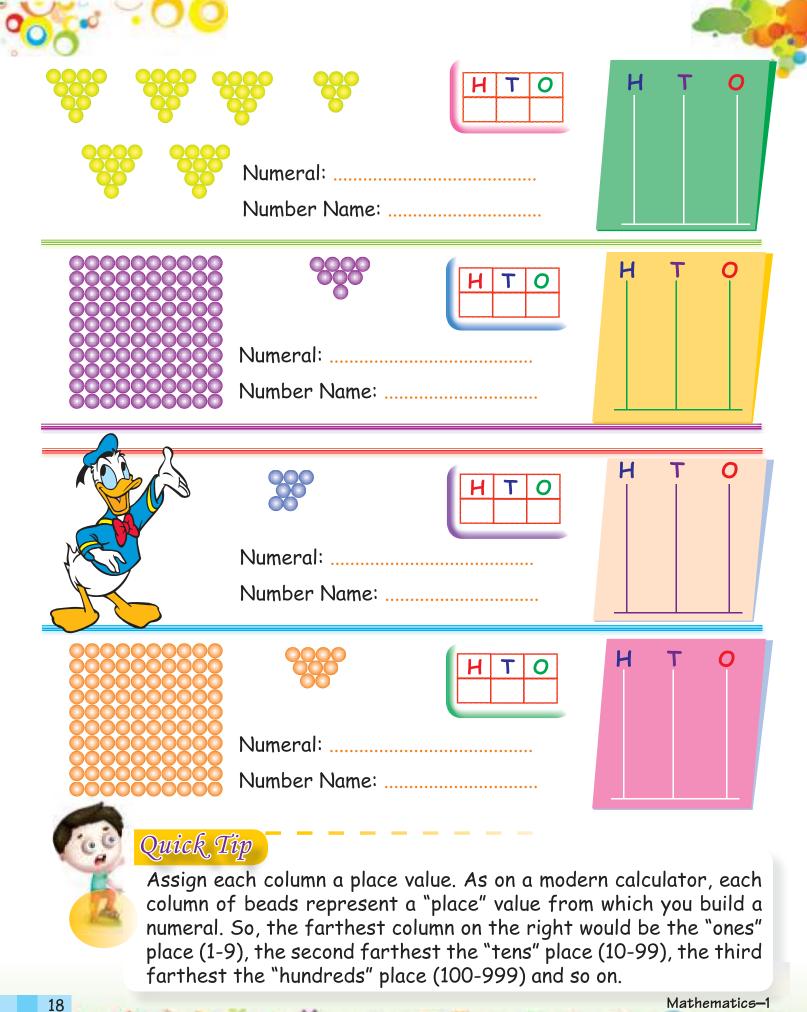
Number Name: One Hundred Twenty-five



Note:

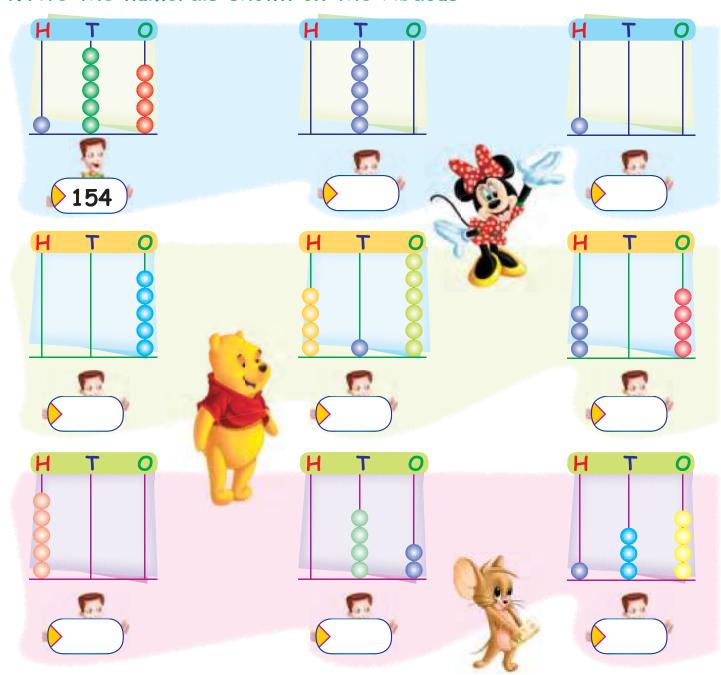
Teacher's Use physical objects to represent the numbers to help children visualise what they are doing on the abacus. For example, you can use twenty five pebbles to represent the

number 25. Once they understand how to count with physical objects, they will be able to transfer that knowledge on the abacus.



Mathen

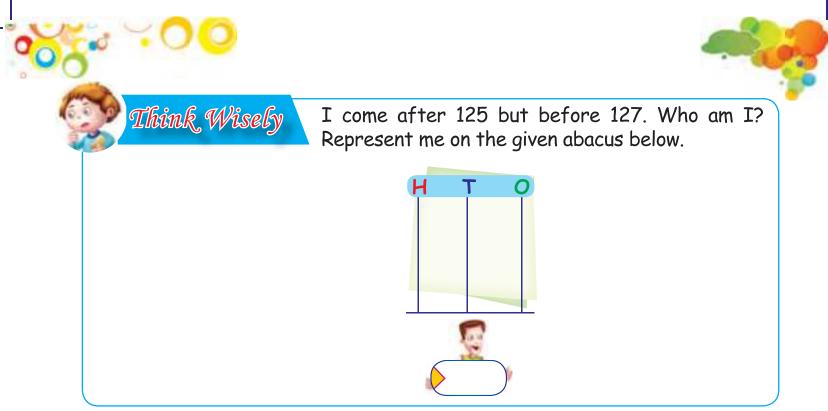
#### Write the numerals shown on the Abacus:



#### Facts to Know

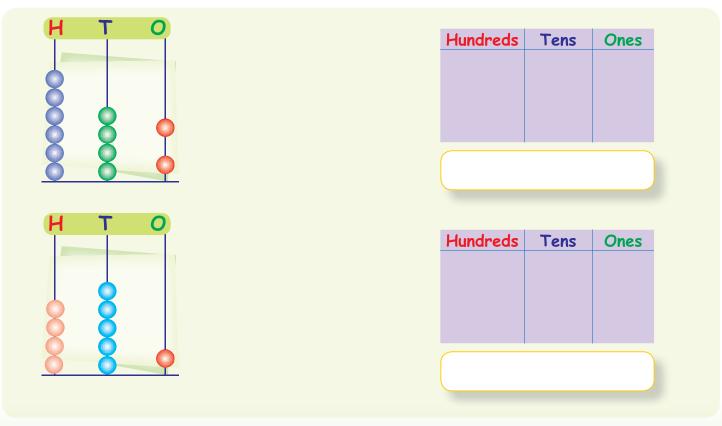
- Abacus is one of the most primitive calculating devices known. It is still being used in some countries for calculations.
- China is majorly considered to be the place of origin of Abacus. The
  originally written documentation on Chinese abacus is dated in the
  second century BC.

Mathematics—1 19





#### Hundreds, Tens and Ones. Write how many.







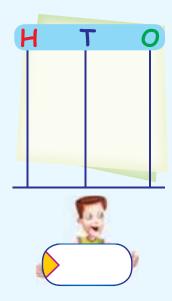


#### Materials required:

Multicoloured beads, four sticks and a fevicol.

#### Steps:

- 1. Divide the class into two groups.
- 2. Give the materials to both the groups.
- 3. Ask the groups to create an abacus and show the number '671' on it using the beads.
- 4. The group which will create the abacus first will get the points.





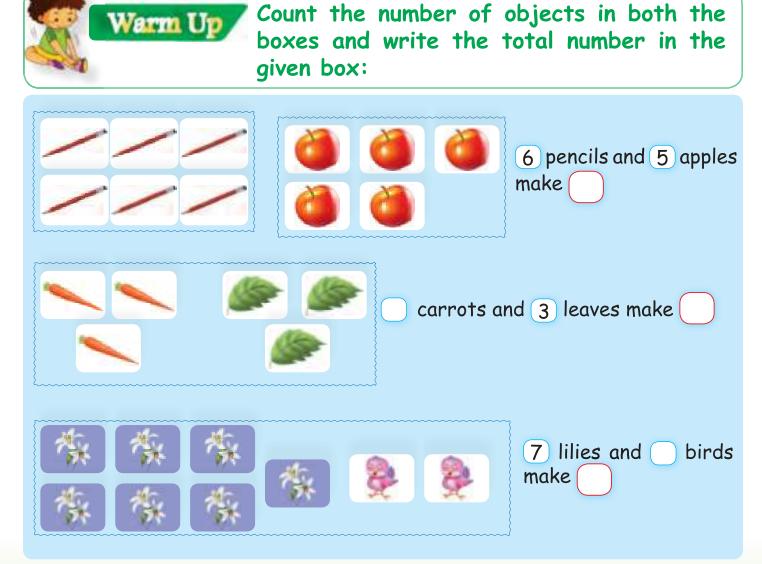


## Addition



## At the end of this lesson, students will be able to:

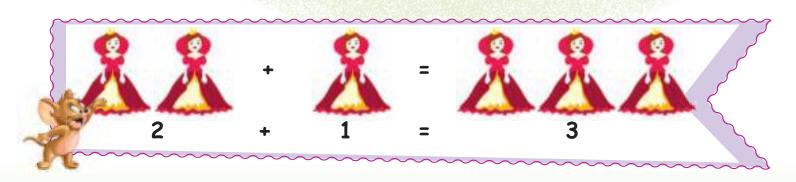
- · Add by putting together and on fingers.
- Recognise the symbol '+' for addition.
- · Add two digit numbers vertically.
- Solve story sums of addition.















'+' is known as <mark>plus</mark> sign.

It means add or sum numbers.



#### Count the objects and add the numbers:

/	2 dogs	and	3 dogs	make	5 dogs
	THE BE	+		=	
	3 tortoises	and	4 tortoises	make	7 tortoises
		+	# # #	=	HA HA HA
	o1 cake	and	3 cakes	make	4 cakes
	Sprand Seppopel	+	The state of the s	=	Append Append
	,5 toys,		1 toy and 2 toys	make	8 toys
	The fee	+	Fine + Fine	= 0	tes fes fes fes
	6 choclates,	1 cł	noclate and 3 choclate	s make:	s 10 choclates
		+		_	





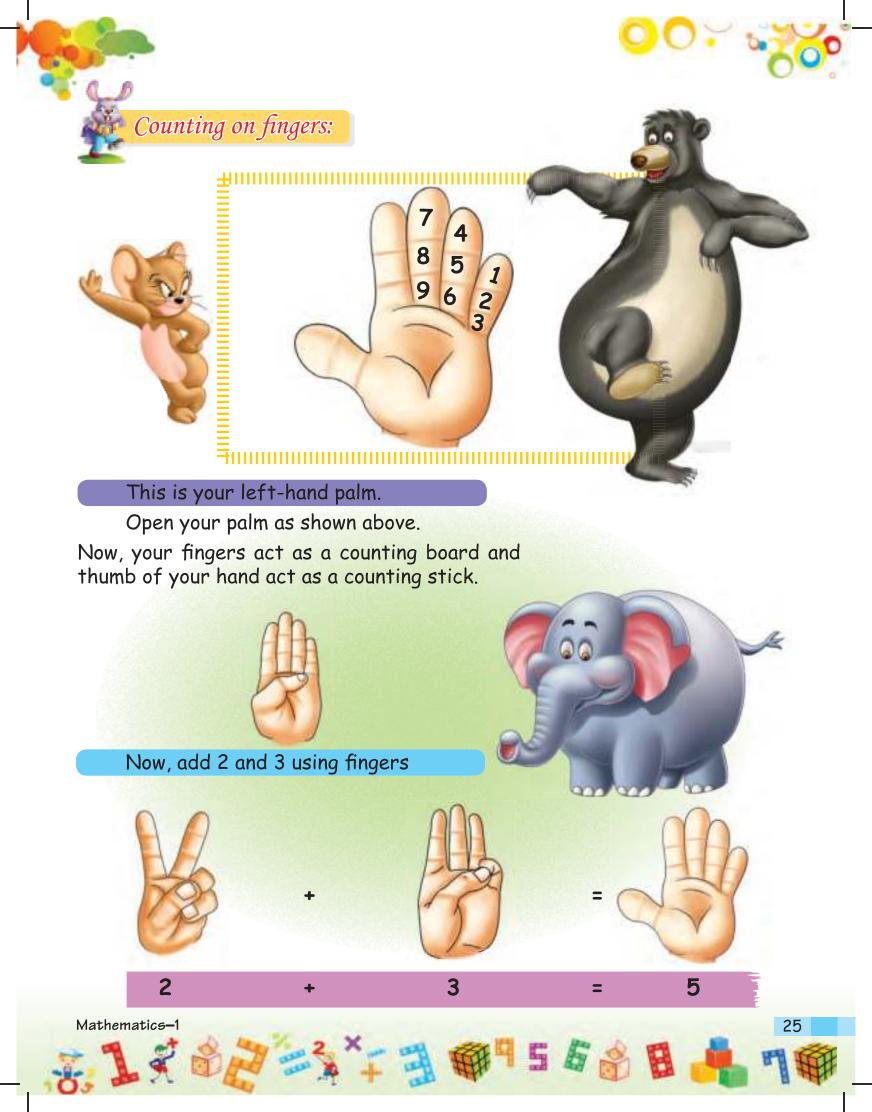
















### Count on your fingers and add the following numbers:

5

+

2

=

2

+

4

=

THE STATE OF THE S

1

+

6

=



7

2

1

2

=



2

**5** 

=



2

•

2

3

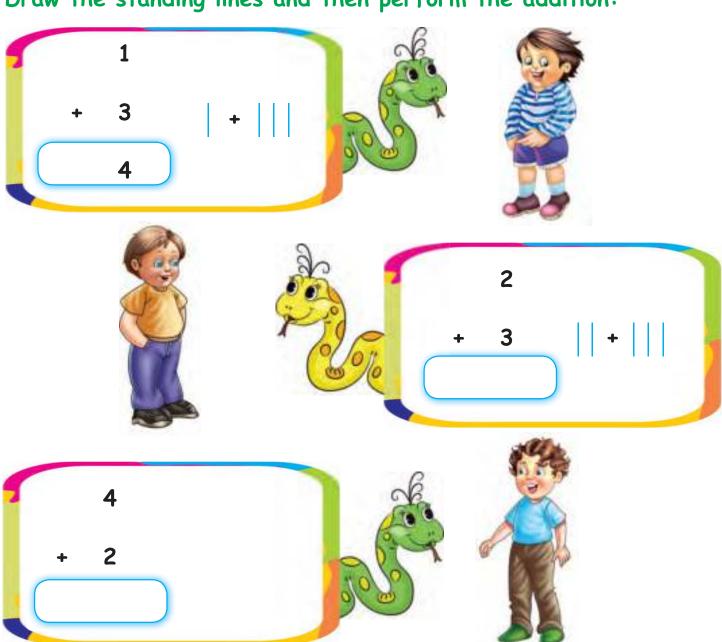


Mathematics-1





#### Draw the standing lines and then perform the addition:





### Quick Tip



Addition of two numbers give the same result irrespective of the order in which they are added. For instance, 4 + 3 = 3 + 4 as both give the same result i.e. 7.



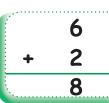
#### Read the statements and do the additions:

1. Kishan has 6 pencils. Vijay has 2 pencils.





How many pencils are there in all?



3. Hema has 5 skirts and 3 tops.





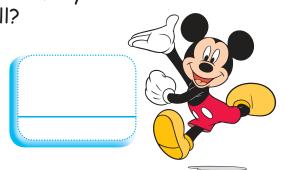
How many clothes does she have in all?



Shagun has 2 balloons. 2. Mini has 4 balloons.



How many balloons are there in all?

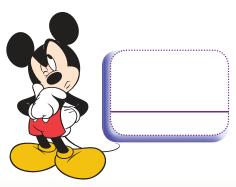


Komal has 2 cakes. 4. She gets 1 more.

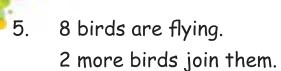


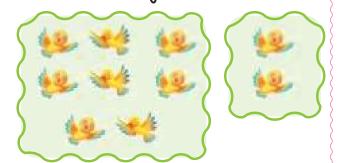


How many cakes are there in all?

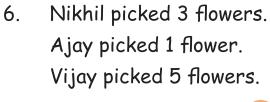






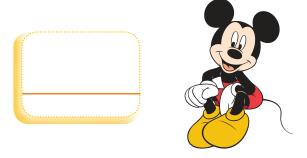


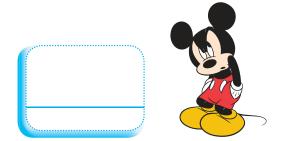
How many birds are there in all?





How many flowers did they picked together?







#### Facts to Know

The symbol for addition, +, was invented by Michael Stiple in 1544. The symbol owes its origin to the word "et" in Latin.







Objects	Tens Ones
	1 0 + 5
	1 5
	+
	+
	+
	+
	+
30 30 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Mathematics–1



# OO: "Soo

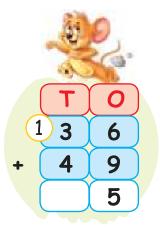
#### Add 36 and 49:

#### Step-1: Add the ones.

6 ones + 9 ones = 15 ones

15 ones = 1 tens + 5 ones.

Write 5 in the ones column and take 1 ten to the tens column.



#### It is known as carry.

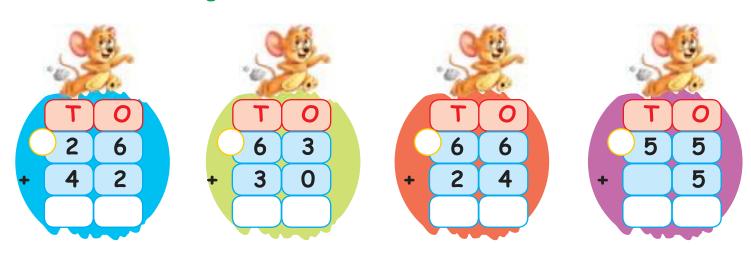
#### Step-2: Add the tens.

1 tens + 3 tens + 4 tens = 8 tens

Write 8 in the tens column.



#### Add the following:





Explain the concept of adding the ones and then adding the tens to arrive at the complete answer.





 5 children are studying.
 12 more children join them.
 How many children are there?



+

There are 17 fishes in a pond.3 more join them.How many fishes are there?



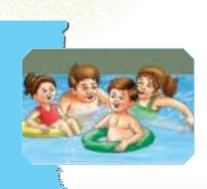
+

3. A fruitseller had 11 bananas,2 watermelons and 5mangoes.How many fruits did fruitseller had?





4. 25 children went for swimming.26 more children join them.How many children are swimming there?





Mathematics-1



Samaira's age is less than 25 years.

It is more than 21 + 2.

Samaira is \_\_\_\_\_ years old.

Draw the candles on the cake.





1. Circle any two numbers together that add up to 9. The numbers can go straight, downwards or diagonally.

1	2	3	4	5	6
2	9	6	3	8	2
0	9	1	5	2	9
2	8	2	4	3	7
6	8	9	2	2	10

- 2. How much is 6 added to 2?
- 3. 3 sparrows and 8 sparrows makes how many sparrows?









Mathematics-1

#### Materials required:

#### A big dice

#### Steps:

- 1. Ask the students to look at the side that shows 5.
- 2. Now see the number to its opposite side. Add the number to 5. + = =
- 3. Now look at the number 3 and also the number on its opposite side.

Add these two numbers. + = =

4. Now look at the number 1 and number at its opposite side. Add the numbers + = =

What do you observe?







## Subtraction



At the end of this lesson, students will be able to:

- Subtract the numbers horizontally as well as vertically.
- Identify the symbol (minus) for subtraction.
- Solve the problem sums based on subtraction.



Teacher's Note:

Tell the children that taking something away from a collection is called subtraction. (-) is the sign of subtraction and is read as "minus". Make sure that the children subtract

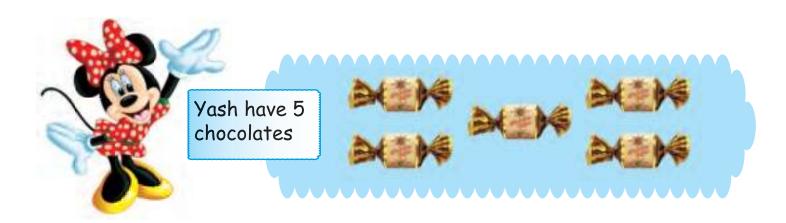
a smaller number from a bigger number and not vice-versa



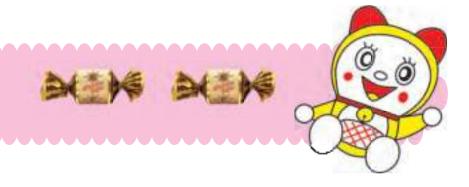


### Subtraction means taking away.





Yash gave 2 chocolates to his sister





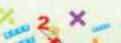
Now, Yash have **3 c**hoclates left.



























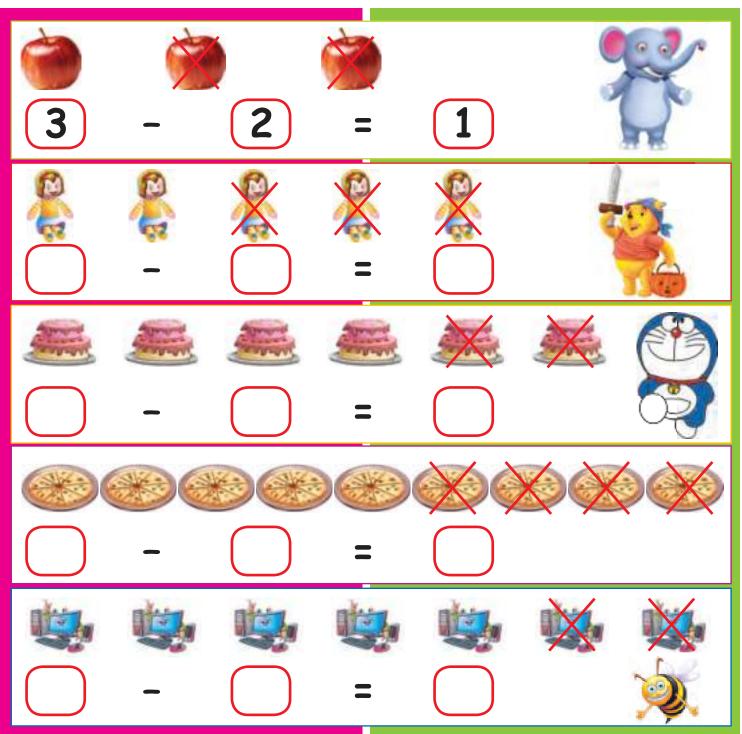
'-' is known as minus sign.

It means subtract the numbers.





## Count the objects and subtract the numbers:

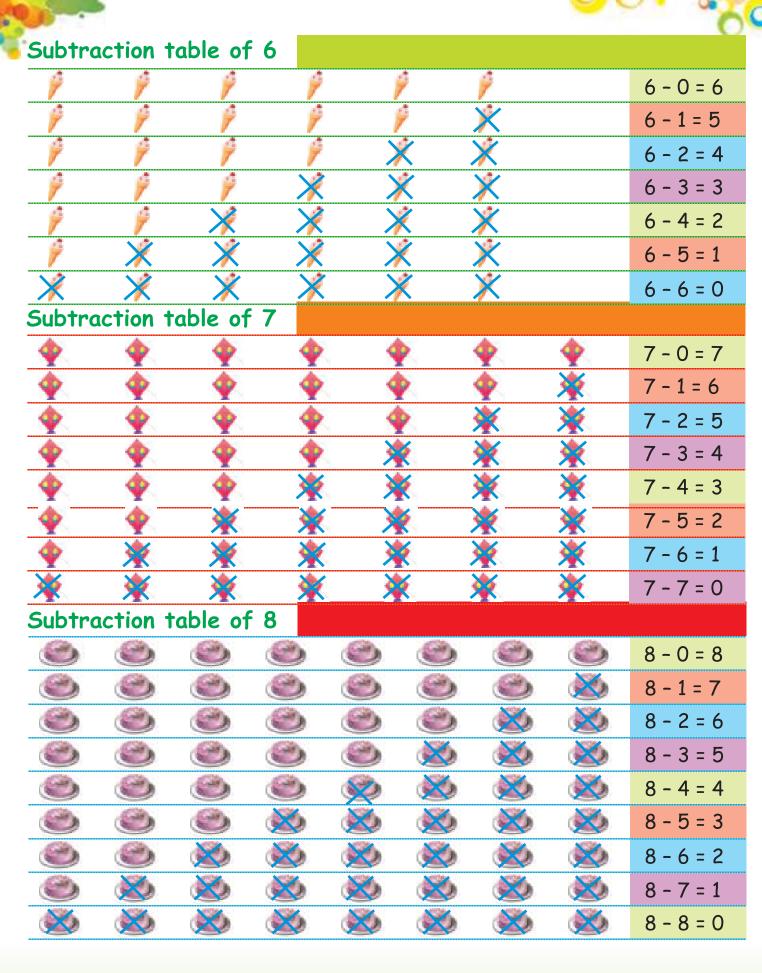






Mathematics-1

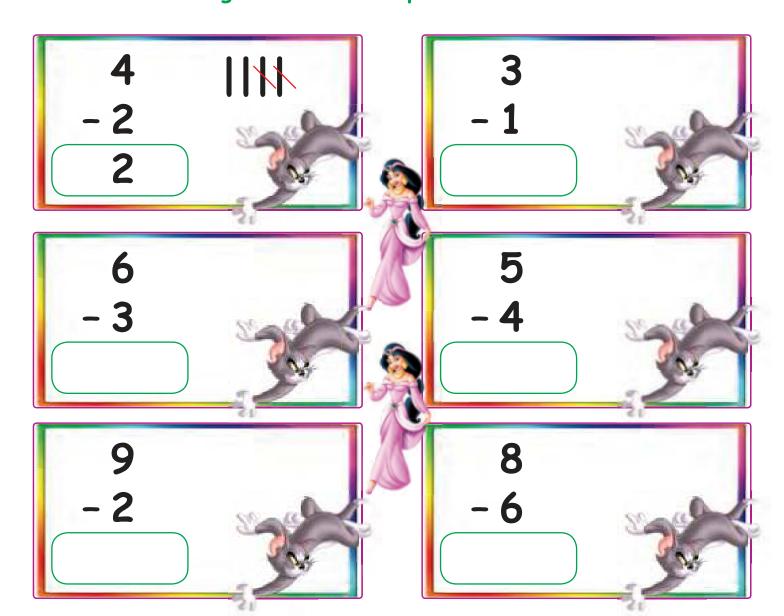
1						
Subtro	action	table o	f 2			
						2 - 0 = 2
	×					2 - 1 = 1
	×					2 - 2 = 0
Subtro	action ·	table o	f 3			
4	4	4				3 - 0 = 3
	4	×				3 - 1 = 2
	×	×				3 - 2 = 1
X	×	×				3 - 3 = 0
Subtro	action ·	table o	f 4			
T	答	T		F		4 - 0 = 4
T	7	T		X		4 - 1 = 3
T	7	X		X		4 - 2 = 2
The same of the sa	X	X		X		4 - 3 = 1
X	X	X		X		4 - 4 = 0
Subtraction table of 5						
W.	Self.	W.	No.	W.		5 - 0 = 5
W.	M.	2	M.	X		5 - 1 = 4
S.	ALL.	Ž	X	X		5 - 2 = 3
1	W.	X	X	X		5 - 3 = 2
W.	X	X	X	X	,	5 - 4 = 1
	X		X	X	•	5 - 5 = 0







### Draw the standing lines and then perform the subtraction:





### Quick Tip

To check the answer of a subtraction problem , add the difference to the smaller number. You should get a greater number.





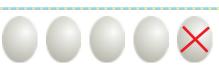
### Subtract these numbers:





### Read the statements and do the subtraction:

- 1. Shriyanshi bought 5 eggs. One of them got broke.
  - How many eggs are left?





- Shagun has 6 dolls. 2. She gave 2 dolls to her brother.
- How many dolls are left with her?



- There are 10 birds on 4. the branch of a tree.
  - Four birds flew away.

How many birds are left on the branch?

5.





### Find the subtraction:

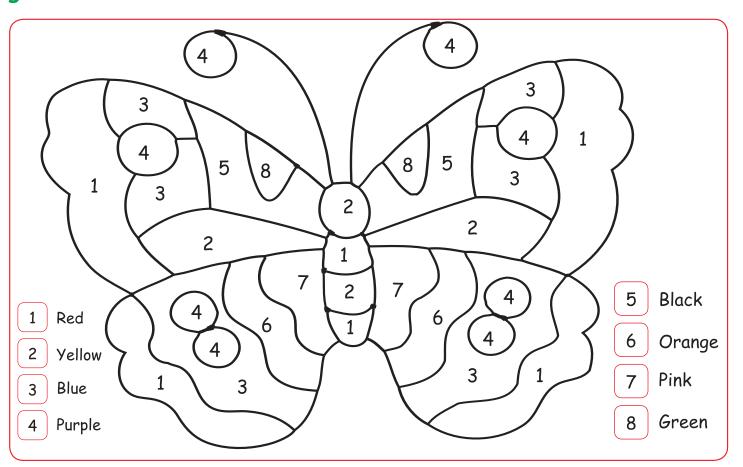
Mathematics-1

### Facts to Know

Early use of the minus (-) sign that we use today was discovered in a German manuscript dating from 1481. After studying this manuscript, Johannes Widman published his book Mercantile Arithmetic using the minus sign to indicate subtraction.



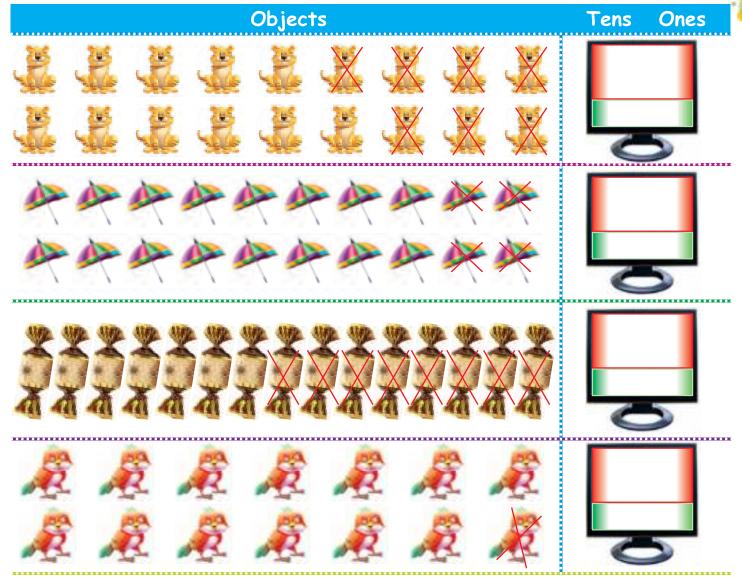
Now, colour the following picture of butterfly using colour codes given in subtraction:

















### Subtract 33 from 82:

**Step-1:** Subtract the ones.

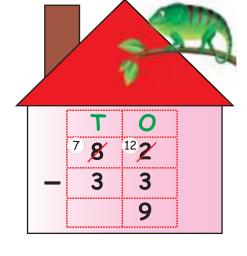
2 < 3.

There are not enough ones, so now regroup.

8 tens and 2 ones = 7 tens and 12 ones.

12 ones - 3 ones = 9 ones.

Write 9 in the ones column.



### [ It is known as borrow.

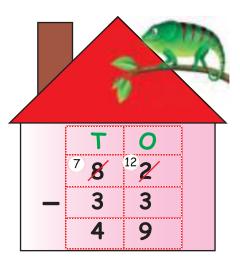
Step-2: Subtract the tens.

7 tens - 3 tens = 4 tens

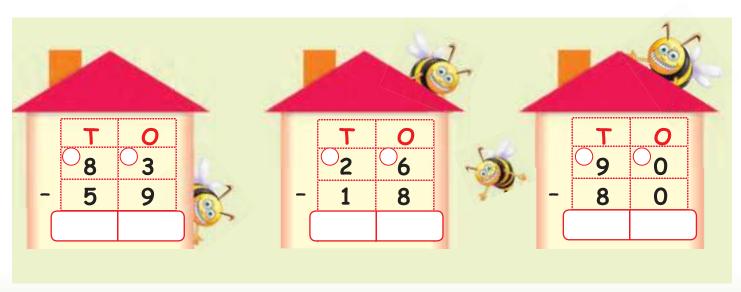
Write 4 in the tens

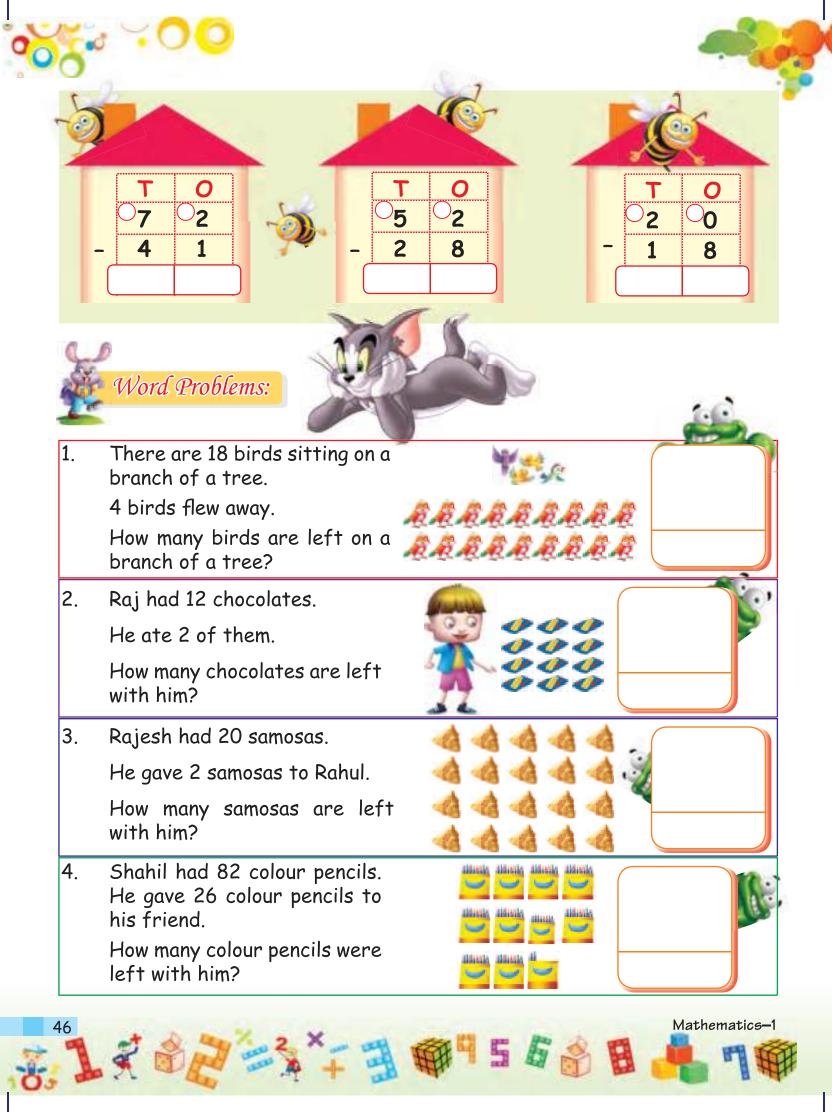
columns.

∴ 82 **-** 33 **=** 49



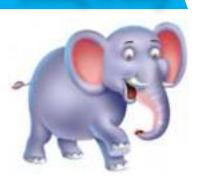
### Subtract the following:











In a zoo, there are 20 elephants. 12 of them have tusks. How many elephants do not have tusks?



# Mental Maths

<b>A</b> .	Tick	(√)	the	correct	option.
------------	------	-----	-----	---------	---------

- 1. There were 8 apples in a basket. Raman ate 2. How many apples are left?
  - a. 6
- b. 5
- c. 2
- 2. Jasbir had 5 pencils. He lost 1. How many pencils are left?
  - a. 7
- b. 4

- c. 9
- 3. There were 9 rabbits in the garden. 6 ran away. How many rabbits are left?
  - a. 5
- b. 3
- c. 2
- B. Subtract and match the answer.
  - 1.



2



2.



3.



3



4.









### Materials required:

Marbles or beads, dice.

### Steps:

- 1. Divide the class into groups of 10 students each.
- 2. The students will sit in a circle.
- 3. Give 10 marbles or beads to each student of a group.
- 4. The first student throws the dice and notes down the number on its top face. (say 5)
- 5. He/she then puts as many marbles or dice in the middle as the number on dice.
- 6. The student sitting next, takes away all the marbles or beads, so that nothing is left in the middle. So, 5-5=0
- 7. Now this second student throws the dice and notes down the number on its top face and likewise all 10 students to get a chance.

By this activity, students will be able to verify that when a number is subtracted from itself, the result is 0.





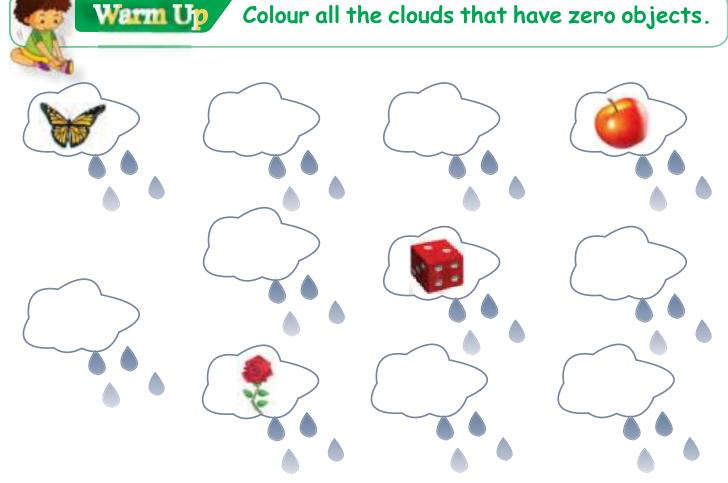


# Concept of Zero



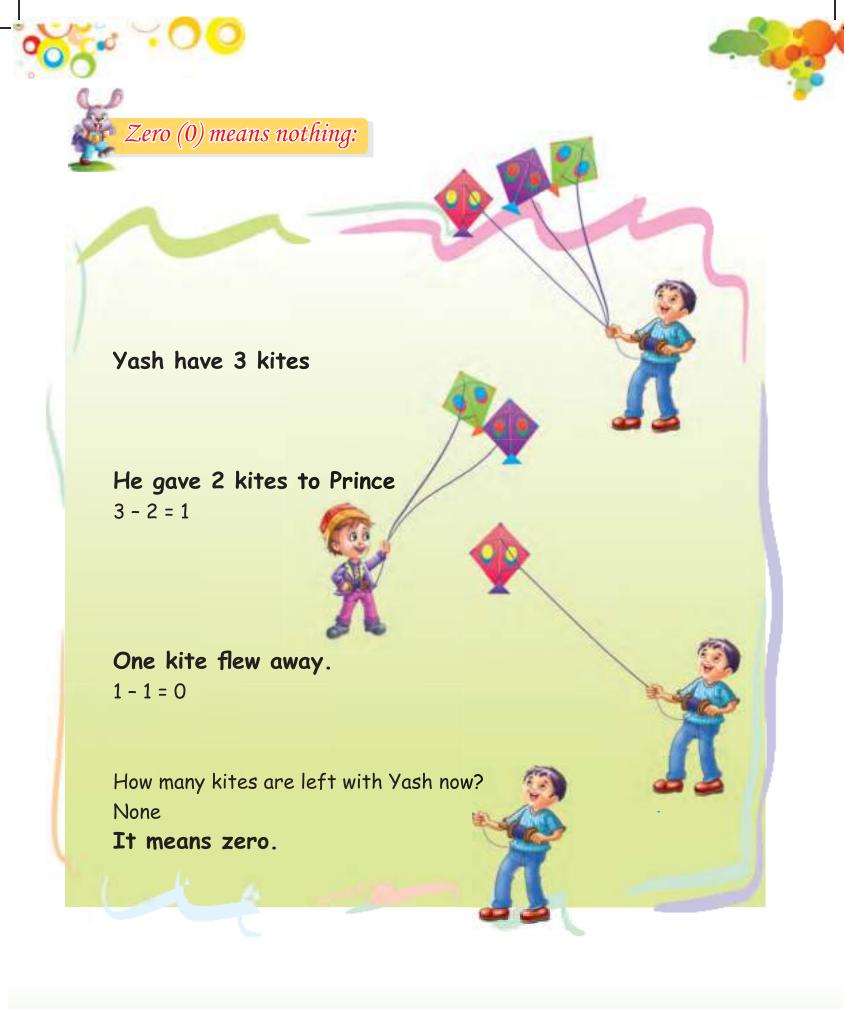
At the end of this lesson, students will be able to:

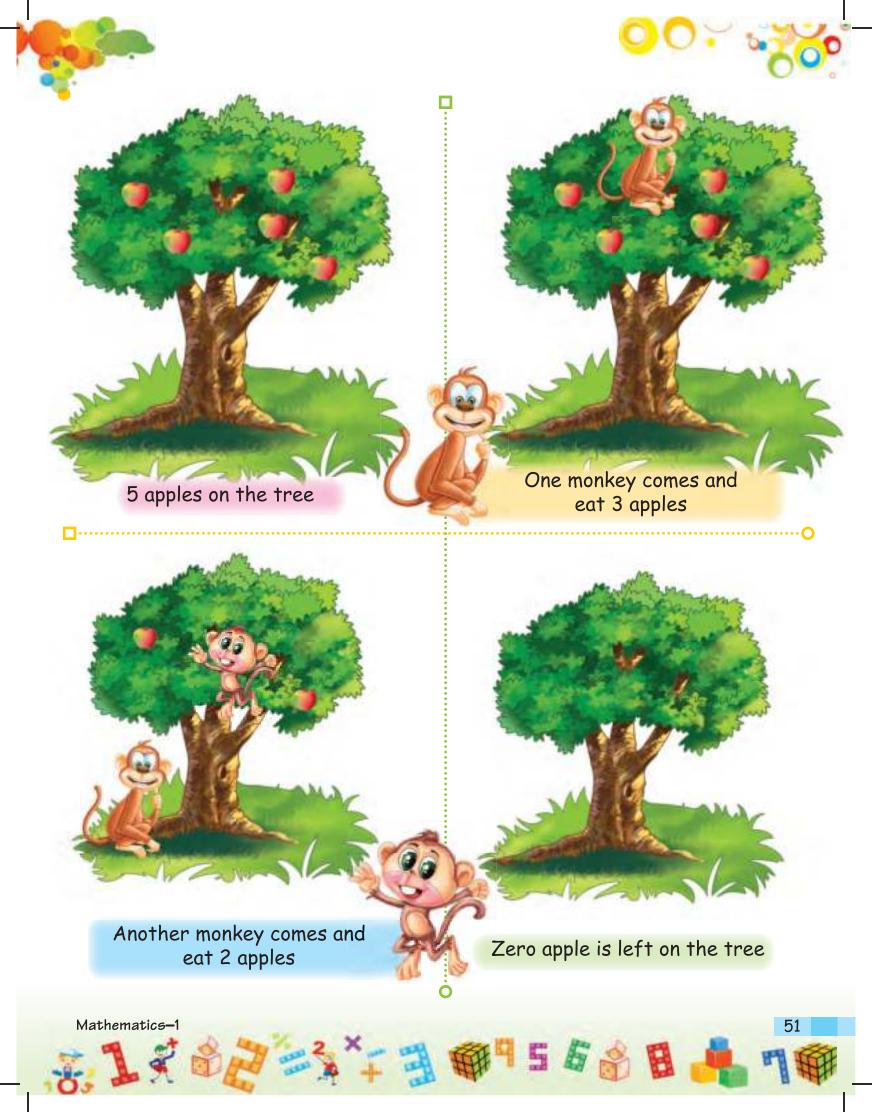
- Know the value of zero.
- Learn when we add or subtract 0 from any number, the result is always the number itself.



Teacher's Note:

Elucidate students about the word 'zero' that it is used to indicate emptiness or nothing.





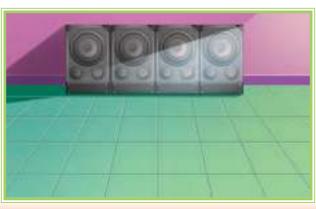




8 girls are dancing on the DJ floor.



All girls gets tired.



No girl is dancing on the DJ floor.

### Fill in the blanks:

### Facts to Know

The definition and the usage of zero was first developed by Brahmagupta, an Indian Astronomer and Mathematician in 628.



















### Addition Property of Zero: `





are no girls on the DJ floor.

There

4 girls come to dance on the DJ floor.







Now,
4 girls are
dancing on the
DJ floor.

### Tip: When we add zero to any number, we get the same number.



5

0

Rajat has 5 chocolates.



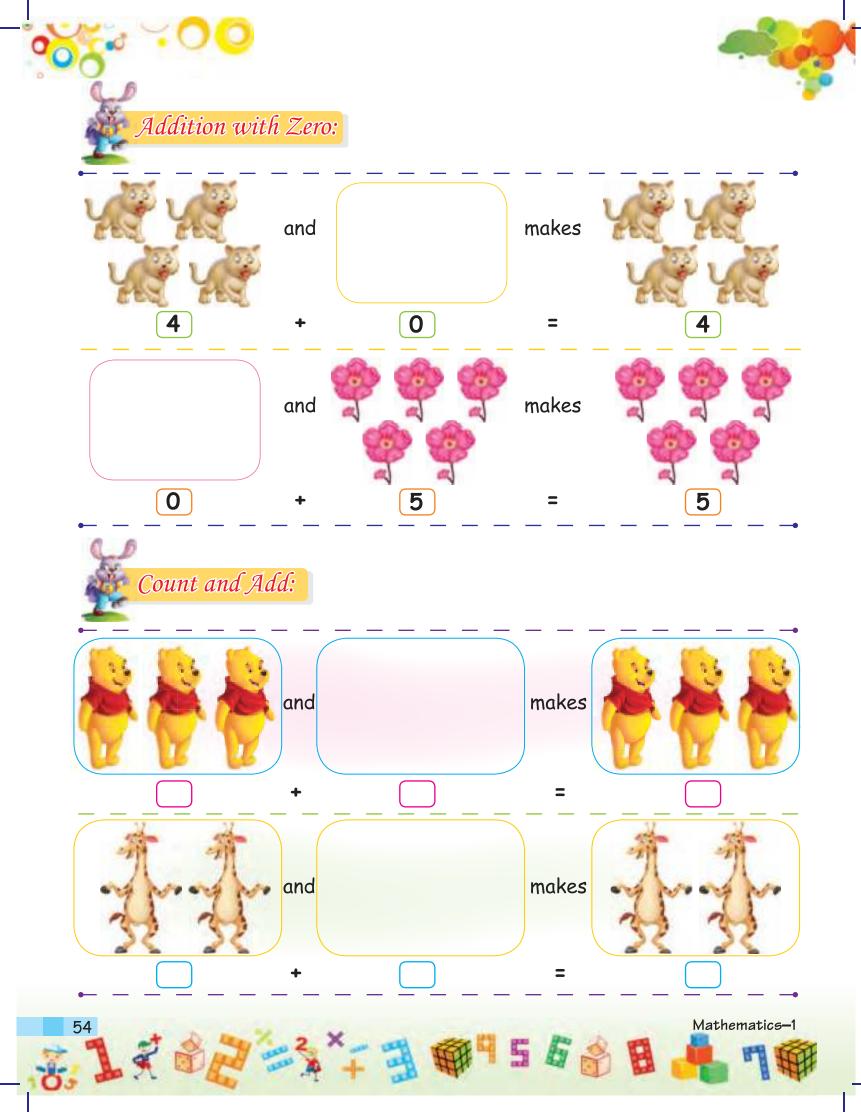
His friend gave him no chocolates.



So, 5 + 0 = 5

Chocolates left with Rajat.

Tip: When we add any number to zero, we get the same number.

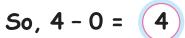














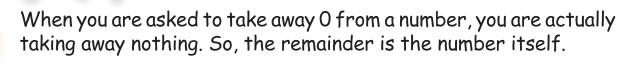
A boy had 4 chocolates.

He ate nothing.

So, he had 4 chocolates left.



## Quick Tip





There are five birds sitting on the branch of a tree.



None of the birds flew



5 birds are left



\_

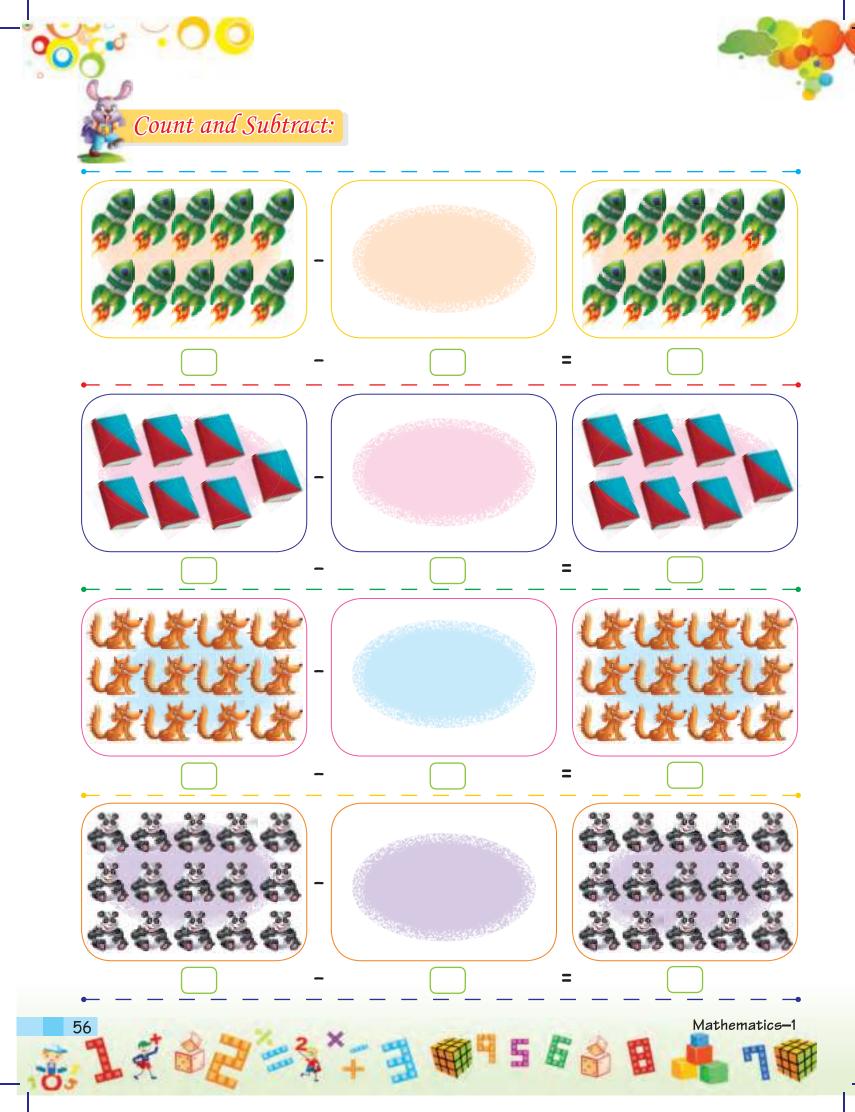


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Mathematics-1

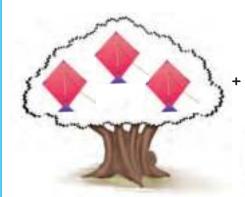




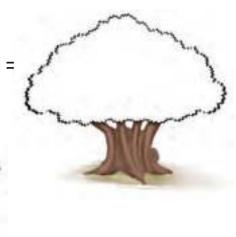




Tom had 3 kites but Sam had no kites. How many kites did they have actually?









# Mental Maths

### A. Subtract.





### Materials required:

Flash cards with 'O' marked on them, paper cups and marbles

### Steps:

- 1. Give flash cards with '0' marked on them to the students and ask them to stand in a circle.
- 2. Place the paper cups face down in the centre, some of them with a few marbles under them and some empty.
- 3. Ask one student to run around the circle as the others clap.
- 4. When the clapping stops, the student has to stand in front of one of the cups.
- 5. If there are no marbles under the cup when he/she lifts it, he/she should show the zero flash card. But if there are marbles under the cup, he should count and say how many.
- 6. Play the game several times till all the students understand that '0' means 'nothing' is there.





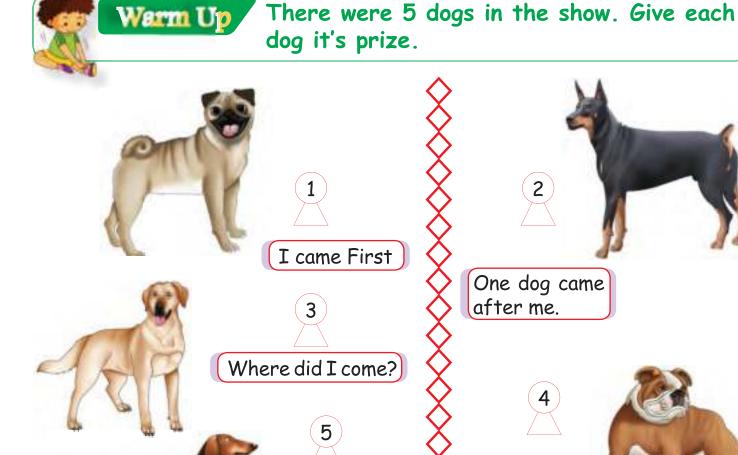
# Comparing Numbers



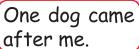
At the end of this lesson, students will be able to:

- Know the rules of comparing numbers.
- Arrange numbers in ascending or descending order.
- Compare numbers using the number line.
- Add, subtract and solve problem sums using the number line.

Two dogs were in front of me.









I came last









### Comparing one-digit, two-digit and three-digit numbers:



Rule 1:



First compare hundreds place digit of given numbers.

It means Joker Jonny number is lesser and Joker Liver number is greater.



#### Rule 2:

Dog Jacky



Dog Tomy 241



If hundreds place of given numbers are same, then compare tens place digit.

It means Dog Jacky number is greater and Dog Tommy number is lesser.





Using real things, teach the pupils about the concept of larger and smaller numbers. Show 20 pencils on one side and 25 notebooks on the other. Instruct them to count and determine which number is the larger of the two.







#### Rule 3:







If both hundreds place and tens place of given numbers are same, then compare ones place digit.

It means Cat Lussy number is lesser and Cat Pussy number is greater.







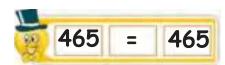






Doll Barbie

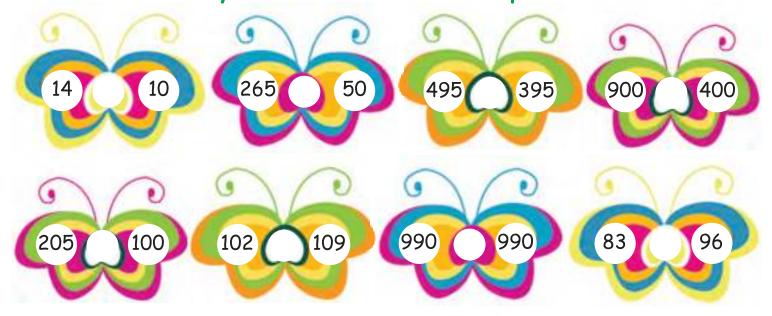
If hundreds place, tens place and ones place of given numbers are same, then it means Doll Marie number is same as Doll Barbie number.



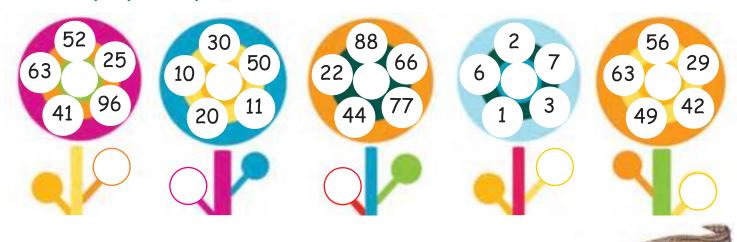








Write the greatest number in the center and smallest number in the leaf of the flower:





Lesser than and greater than signs:

Alligator method: Imagine greater and lesser than sign as little alligators with the numbers on either side representing a number of fish. The alligator always wants to eat the larger number of fish, so whatever number the mouth is open toward is the larger number.













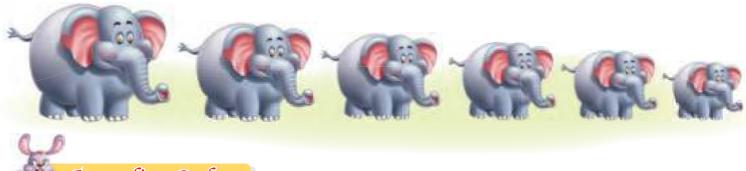


Numbers can be arranged in two ways:



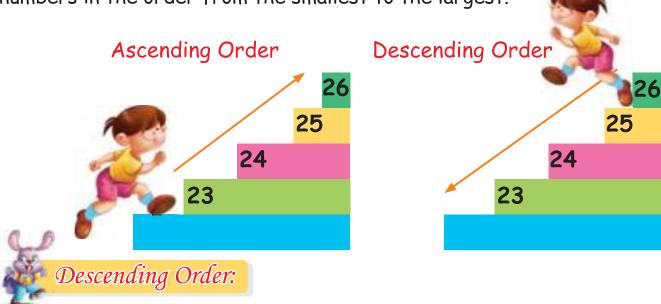


### Descending Order



# Ascending Order:

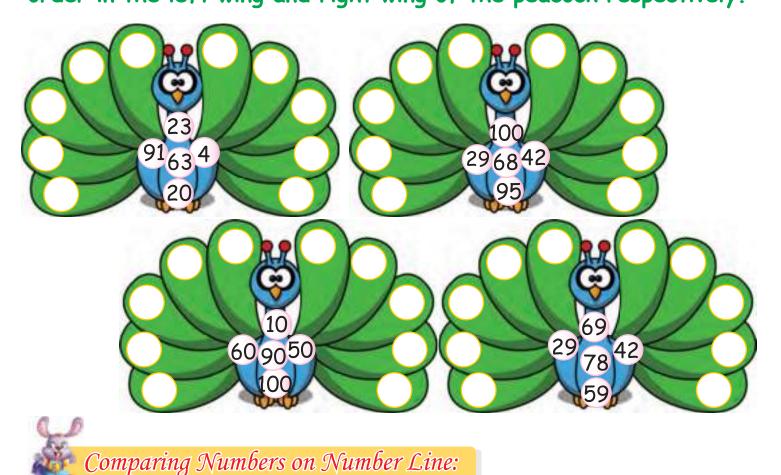
To arrange the numbers in ascending order, put the numbers in the order from the smallest to the largest.



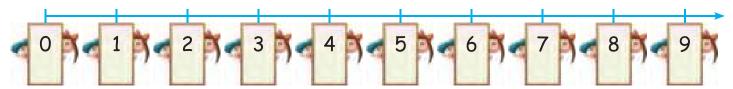
To arrange the numbers in descending order, put the numbers in the order from the largest to the smallest.



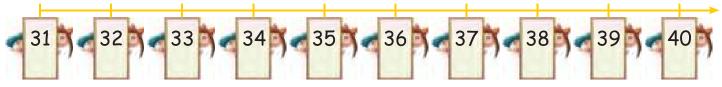
Arrange the given numbers in ascending order and descending order in the left wing and right wing of the peacock respectively.



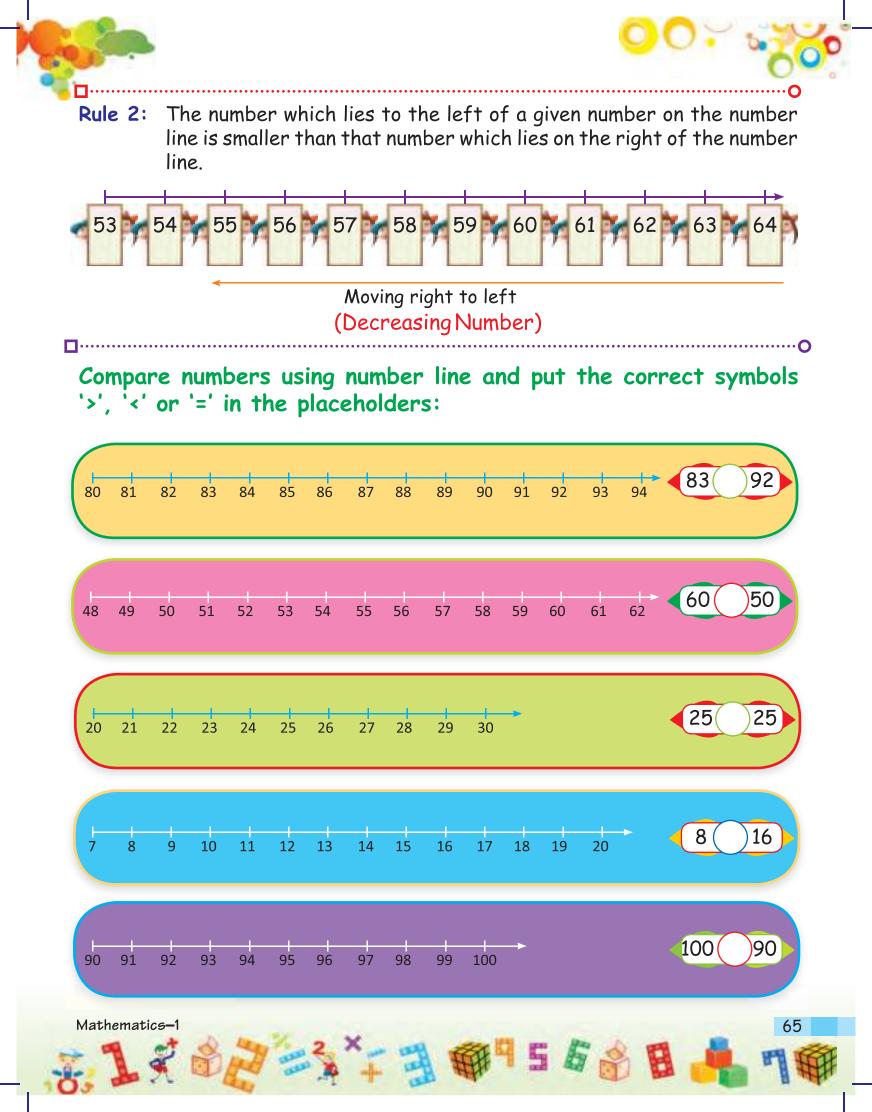
A number line consist of an array of numbers.



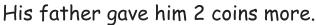
Rule 1: The number which lies to the right of a given number on the number line is greater than that number which lies on the left of the number line.

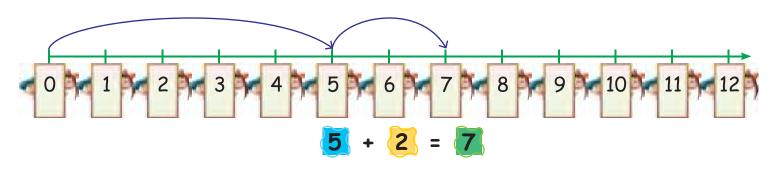


Moving left to right (Increasing Number)



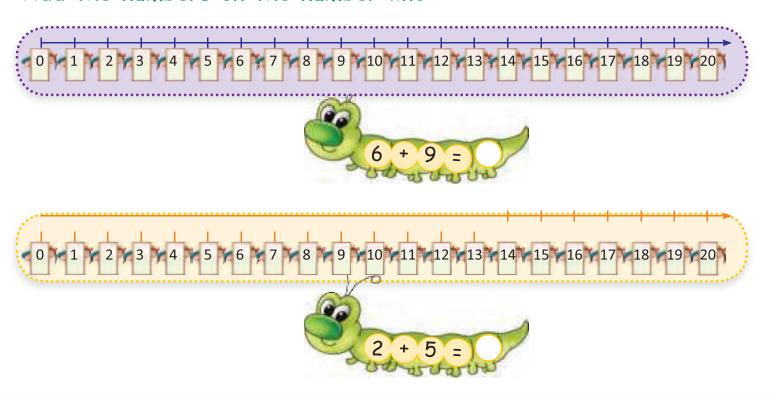




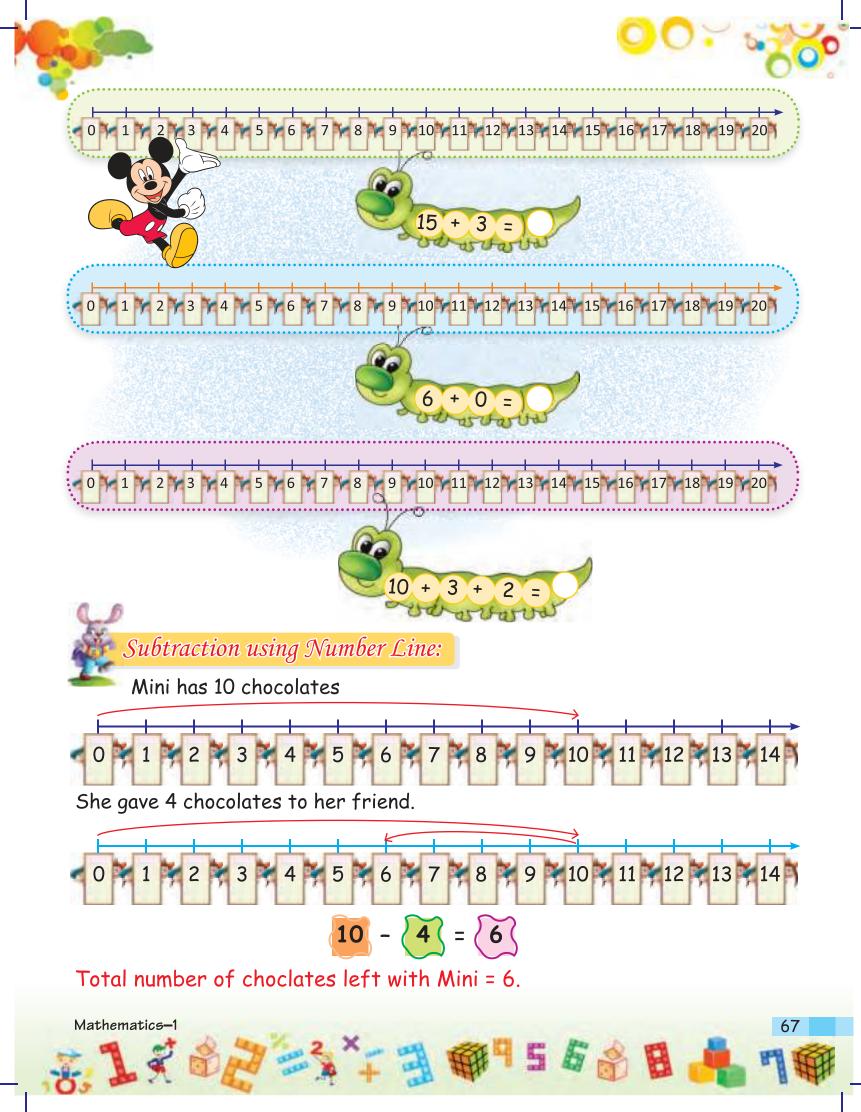


Total number of coins Raj had = 7.

### Add the numbers on the number line:











### Subtract the numbers on the number line:

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

20 - 1 =



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

5 - 0 =



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

12 - 5 =



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

8 - 8 =



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0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

17 - 8 =



### Facts to Know

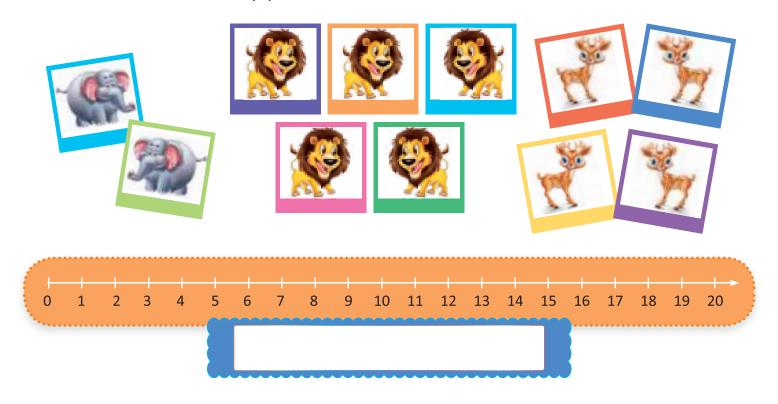
A number line can be extended infinitely in any direction and is usually represented horizontally.





### Solve the following word problems using number line:

1. Jennie bought a new camera. He took different pictures at the zoo. He took 2 pictures of the elephant, 5 pictures of the lion and 4 pictures of the deer. How many pictures did he took in all?



2. Cherry bought 15 choclates. She gave 5 to her brother. How many chocolates does Cherry have now?



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20





### Who am I?

### Find the number whose digits are as following:

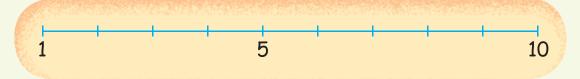
- a. Ones place is 9 less than 10.
- b. Tens place is 2 more than 4.
- c. Hundreds place is between 2 and 4.

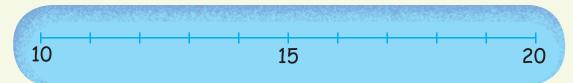




# Mental Maths

A. Complete the number lines.





B. Put the correct symbols '>', '<' or '=' in the following.

2	3	18	20
6	9	15	13
1	11	17	17
12	12	4	14
5	15	8	16
10	3	12	20





### Materials required:

Flash cards representing three digit numbers.

### Steps:

- 1. Divide the class into 5 groups.
- 2. Ask the student of 1st group to choose any 4 flashcards.
- 3. Now, ask the students to arrange these flash cards in ascending and descending order. E.g. 856, 595,663, 454
- 4. Repeat the same with other groups.

### Ascending order:



### Descending order:

856 663 595 454







At the end of this lesson, students will be able to:

- Know the difference between ordinal and cardinal numbers.
- Understand when ordinal numbers are used.
- Speak and write ordinal numbers upto 10.



# In a class test of 50 marks, the following marks were obtained by the students:

Roll No.	Marks			
1	46			
2	42			
3	28			
4	49			
5	35			
6	39			
7	43			
8	45			
9	36			
10	41			

### Now, fill in the blanks:

- 1. Roll No. \_\_\_\_\_ stood first in the class.
- 2. Roll No. \_\_\_\_\_ stood second in the class.
- 3. Roll No. \_\_\_\_\_ stood third in the class.
- 4. Roll No. \_\_\_\_\_ stood fourth in the class.
- 5. Roll No. \_\_\_\_\_ stood fifth in the class.



When we count the numbers, 1 (one), 2 (two), 3 (three), 4 (four) and so on, then they are known as cardinal numbers.

When we count the numbers in any order (or position) of an object or a person, then they are known as ordinal numbers.

#### First Ten Numbers:





#### Facts to Know

The transfinite ordinal numbers, which first appeared in 1883, originated in Cantor's work with derived sets.

Mathematics—1 73









Comes First (1st)

Comes Second (2nd)





Comes Third (3rd)





Comes Fifth (5th)

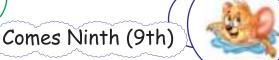
Comes Sixth (6th)



Comes Seventh (7th)



Comes Eighth (8th)



Comes Tenth (10th)

Teacher's Note:

Make children learn about ordinal numbers using real life examples such as: Sarita is the third girl standing in a row. Library is on the fourth floor of the school.

That table is kept at the ninth position in the class display.







# Quick Tip

The first, second and third ordinal numbers are represented by adding letter 'st', 'nd' and 'rd' respectively. All the others are represented by letter th.



# Think Wisely Which alphabet am I?

#### Find the alphabet whose position is as following:

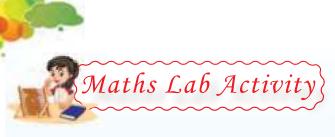
- 1. I come after the fourth alphabet but before the sixth alphabet.
- 2. \_\_\_\_\_ is the seventh letter from the start.
- 3. \_\_\_\_\_ is the second letter from the end.



## Fill in the blanks with right ordinal numbers.



- a. A bird is present in the \_\_\_\_\_ place.
- b. The \_\_\_\_\_ and \_\_\_\_ places have trees.
- c. A tiger is there in the \_\_\_\_\_ place.
- d. The \_\_\_\_\_ place has an animal whose name begins with 'E.



#### Materials required:

15 strips having one sentence each from the popular story 'The thirsty crow'.

#### Steps:

- 1. Tell the children that order is not just a part of numbers alone. It is essential in language activities such as stories too. Read aloud a story to the children. Then write out the story in strips of paper and give each group a strip.
- 2. Keep the strip with you at the beginning of the story.
- 3. Read it aloud and pin it up on the board.
- 4. Ask all the groups to look at the strips with them to find out the next part of the story.
- 5. One child from that group should come forward and pin it next to the first strip.
- 6. All others must carefully read their sentences and one by one come forward with the next part of the story each time and do the same.
- 7. Once the entire story is up on the board, read it aloud to the class and give them a big round of applause.







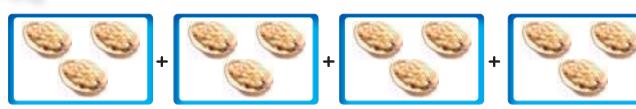
# Multiplication



At the end of this lesson, students will be able to:

- Recite multiplication tables from 2 to 10.
- Multiply by repeated addition.
- · Multiply two digit numbers with and without carry over.





To get the total number of walnuts, we do 3 + 3 + 3 + 3 = 12

Or we are adding 3 four times to get 12.

We can say 4 times 3 = 12 or 4 threes are 12.

Now, look at this:







How many fingers are there in all?

\_\_\_\_+ \_\_\_\_+ \_\_\_\_ = **\_**\_\_\_\_

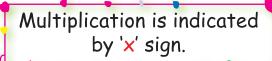
Or 3 times 5 = -----

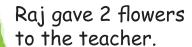






'Multiplication' means 'Repeated Addition'.









Anjali gave 2 more flowers to the teacher.





Komal gave 2 more flowers to the teacher.





Vijay gave 2 more flowers to the teacher.





Total number of flowers teacher have

$$= 2 + 2 + 2 + 2 = 8$$

This can also be written as,

$$4 \times 2 = 8$$

or, 
$$2 \times 4 = 8$$

It is a multiplication fact.



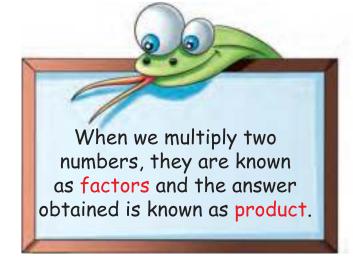


This can be read as,

4 multiplied by 2 is equal to 8.

or, 2 multiplied by 4 is equal to 8.



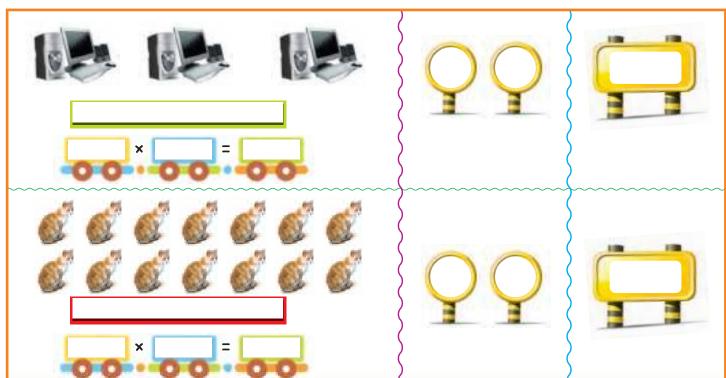




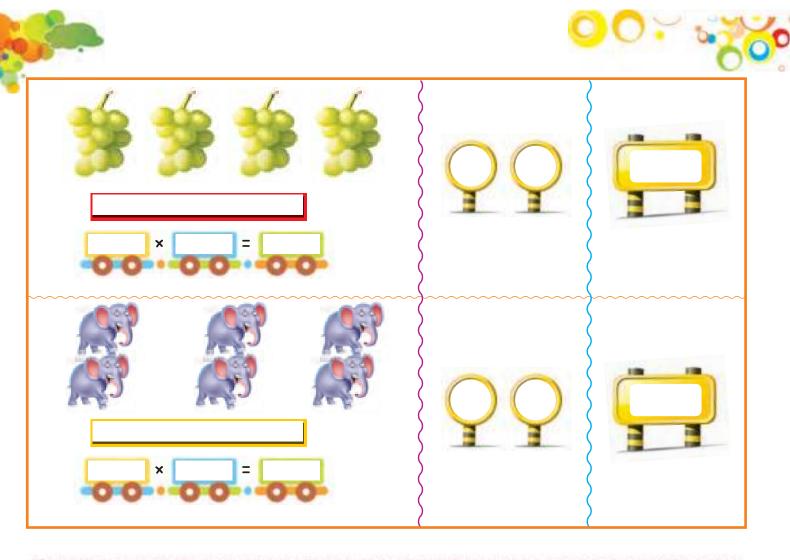


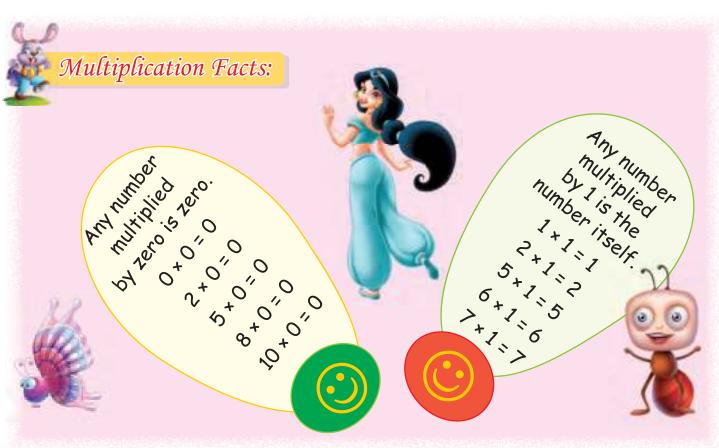
**Product** 















Objects	Repeated Addition	Multiplication
	1 1 taken 1 time	1 × 1 = 1
	1 + 1 1 taken 2 times	1 × 2 = 2
	1 + 1 + 1 1 taken 3 times	1 × 3 = 3
	1 + 1 + 1 + 1 1 taken 4 times	1 × 4 = 4
	1 + 1 + 1 + 1 + 1 1 taken 5 times	1 × 5 = 5
	1 + 1 + 1 + 1 + 1 + 1 1 taken 6 times	1 × 6 = 6
	1 + 1 + 1 + 1 + 1 + 1 + 1 1 taken 7 times	1 × 7 = 7
	1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 1 taken 8 times	1 × 8 = 8
	1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 1 taken 9 times	1 × 9 = 9
	1+1+1+1+1+1 +1+1+1+1 1 taken 10 times	1 × 10 = 10









Objects	Repeated Addition	Multiplication
	2 2 taken 1 time	2 × 1 = 2
	2 + 2 2 taken 2 times	2 × 2 = 4
33 33 33	2 + 2 + 2 2 taken 3 times	2 × 3 = 6
*********	2 + 2 + 2 + 2 2 taken 4 times	2 × 4 = 8
55 55 55 55	2 + 2 + 2 + 2 + 2 2 taken 5 times	2 × 5 = 10
מה הה הה הה הה הה	2 + 2 + 2 + 2 + 2 + 2 2 taken 6 times	2 × 6 = 12
בו בו בו בו בו בו	2 + 2 + 2 + 2 + 2 + 2 + 2 2 taken 7 times	2 × 7 = 14
da da da da da da da da	2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 2 taken 8 times	2 × 8 = 16
NA NA NA NA NA NA NA NA	2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 2 taken 9 times	2 × 9 = 18
THE RE RE RE RE	2+2+2+2+2+ 2+2+2+2+2 2 taken 10 times	2 × 10 = 20



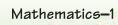


•	6	
Objects	Repeated Addition	Multiplication
ক্রাক্তাক্তা	3 3 taken 1 time	3 × 1 = 3
ক্রাক্তাক্তা ক্রাক্তাক্তা	3 + 3 3 taken 2 times	3 × 2 = 6
কাকাকা কাকাকা	3 + 3 + 3 3 taken 3 times	3 × 3 = 9
ক্রক্রিক্র ক্রক্রিক্র ক্রক্রিক্র ক্রক্রিক্র	3 + 3 + 3 + 3 3 taken 4 times	3 × 4 = 12
राराया याराया याराया राराया याराया	3 + 3 + 3 + 3 + 3 3 taken 5 times	3 × 5 = 15
काकाका काकाका काकाका काकाका काकाका काकाका	3 + 3 + 3 + 3 + 3 + 3 3 taken 6 times	3 × 6 = 18
राराया याराया याराया याराया राराया याराया याराया	3 + 3 + 3 + 3 + 3 + 3 + 3 3 taken 7 times	3 × 7 = 21
काकाका काकाका काकाका काकाका काकाका काकाका	3+3+3+3+3 +3+3+3 3 taken 8 times	3 × 8 = 24
রারারা রারারা রারারা রারারা রারারা রারারা রারারা রারারা	3+3+3+3+3 +3+3+3+3 3 taken 9 times	3 × 9 = 27
क्षक्षक क्षक्षक क्षक्षक क्षक्षक क्षक्षक क्षक्षक क्षक्षक क्षक्षक क्षक्षक क्षक्षक	3+3+3+3+3 +3+3+3+3+3 3 taken 10 times	3 × 10 = 30





Objects	Repeated Addition	Multiplication
\$\$\$\$	4 4 taken 1 time	4 × 1 = 4
<b>***</b>	4 + 4 4 taken 2 times	4 × 2 = 8
\$\$\$\$ \$\$\$\$ \$\$\$\$	4 + 4 + 4 4 taken 3 times	4 × 3 = 12
\$\$\$\$ \$\$\$\$ \$\$\$\$ \$\$\$\$	4 + 4 + 4 + 4 4 taken 4 times	4 × 4 = 16
**************************************	4 + 4 + 4 + 4 + 4 4 taken 5 times	4 × 5 = 20
6666 6666 6666 6666	4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	4 × 6 = 24
6666 6666 6666 6666 6666	4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	4 × 7 = 28
6666 6666 6666 6666 6666 6666 6666 666	4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 4 taken 8 times	4 × 8 = 32
6666 6666 6666 6666 6666 6666 6666 666	4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 4 taken 9 times	4 × 9 = 36
6666 6666 6666 6666 6666 6666 6666 666	4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	4 × 10 = 40







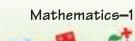
Mathematics-1

Objects	Repeated Addition	Multiplication
	5 5 taken 1 time	5 × 1 = 5
* *	5 + 5 5 taken 2 times	5 × 2 = 10
	5 + 5 + 5 5 taken 3 times	5 × 3 = 15
* * *	5 + 5 + 5 + 5 5 taken 4 times	5 × 4 = 20
* * * *	5 + 5 + 5 + 5 + 5 5 taken 5 times	5 × 5 = 25
*****	5+5+5+5+5 5 taken 6 times	5 × 6 = 30
*****	5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 +	5 × 7 = 35
*****	5+5+5+5+5+ 5+5+5 5 taken 8 times	5 × 8 = 40
*****	5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 5 taken 9 times	5 × 9 = 45
*****	5+5+5+5+5+ 5+5+5+5+5 5 taken 10 times	5 × 10 = 50





Objects	Repeated Addition	Multiplication
	6 6 taken 1 time	6 × 1 = 6
	6 + 6 6 taken 2 times	6 × 2 = 12
	6 + 6 + 6 6 taken 3 times	6 × 3 = 18
	6 + 6 + 6 + 6 6 taken 4 times	6 × 4 = 24
000000 000000	6+6+6+6+6 6 taken 5 times	6 × 5 = 30
000000 000000 000000	6+6+6+6+6 6 taken 6 times	6 × 6 = 36
000000 000000 000000 000000 000000 000000	6+6+6+6+6+ 6+6 6 taken 7 times	6 × 7 = 42
000000 000000 000000 000000 000000 000000	6+6+6+6+6+ 6+6+6 6 taken 8 times	6 × 8 = 48
000000 000000 000000	6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 +	6 × 9 = 54
000000 000000 000000 000000 000000 000000	6+6+6+6+6+6 6+6+6+6+6 6 taken 10 times	6 × 10 = 60









Mathematics-1

Objects	Repeated Addition	Multiplication
	7 7 taken 1 time	7 × 1 = 7
	7 + 7 7 taken 2 times	7 × 2 = 14
****	7 + 7 + 7 7 taken 3 times	7 × 3 = 21
** * *	7 + 7 + 7 + 7 7 taken 4 times	7 × 4 = 28
****	7 + 7 + 7 + 7 + 7 7 taken 5 times	7 × 5 = 35
****	7 + 7 + 7 + 7 + 7 + 7 7 taken 6 times	7 × 6 = 42
* * * * *	7 + 7 + 7 + 7 + 7 + 7 + 7 7 taken 7 times	7 × 7 = 49
* * * * *	7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 7 taken 8 times	7 × 8 = 56
3 3 3 3 3 3	7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 7 taken 9 times	7 × 9 = 63
	7+7+7+7+7+ 7+7+7+7+7 7 taken 10 times	7 × 10 = 70





Objects	Repeated Addition	Multiplication
	8 8 taken 1 time	8 × 1 = 8
	8 + 8 8 taken 2 times	8 × 2 = 16
	8 + 8 + 8 8 taken 3 times	8 × 3 = 24
	8 + 8 + 8 + 8 8 taken 4 times	8 × 4 = 32
	8 + 8 + 8 + 8 + 8 8 taken 5 times	8 × 5 = 40
	8 + 8 + 8 + 8 + 8 + 8 8 taken 6 times	8 × 6 = 48
	8+8+8+8+8 +8+8 8 taken 7 times	8 × 7 = 56
	8+8+8+8+8 +8+8+8 8 taken 8 times	8 × 8 = 64
	8+8+8+8+8 +8+8+8+8 8 taken 9 times	8 × 9 = 72
	8+8+8+8+8+ 8+8+8+8+8 8 taken 10 times	8 × 10 = 80





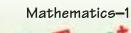
Objects	Repeated Addition	Multiplication
	9 9 taken 1 time	9 × 1 = 9
	9 + 9 9 taken 2 times	9 × 2 = 18
	9 + 9 + 9 9 taken 3 times	9 × 3 = 27
	9 + 9 + 9 + 9 9 taken 4 times	9 × 4 = 36
	9 + 9 + 9 + 9 + 9 9 taken 5 times	9 × 5 = 45
	9 + 9 + 9 + 9 + 9 9 taken 6 times	9 × 6 = 54
	9 + 9 + 9 + 9 + 9 + 9 + 9 9 taken 7 times	9 × 7 = 63
	9+9+9+9+9+9+9 +9 9 taken 8 times	9 × 8 = 72
	9+9+9+9+9+9+9 +9+9 9 taken 9 times	9 × 9 = 81
	9+9+9+9+9+9+9 +9+9+9 9 taken 10 times	10 × 9 = 90







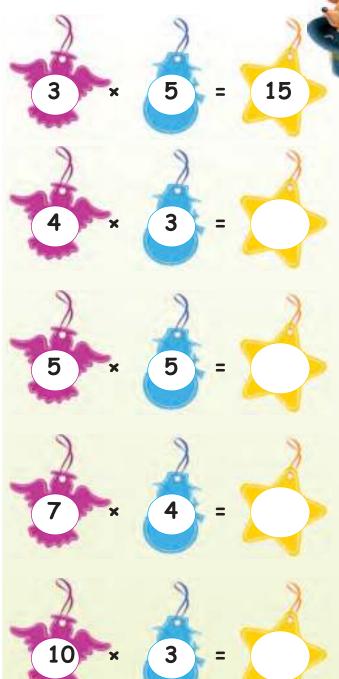
Objects	Repeated Addition	Multiplication
*	10 10 taken 1 time	10 × 1 = 10
***	10 + 10 10 taken 2 times	10 × 2 = 20
***	10 + 10 + 10 10 taken 3 times	10 × 3 = 30
***	10 + 10 + 10 + 10 10 taken 4 times	10 × 4 = 40
***	10 + 10 + 10 + 10 + 10 10 taken 5 times	10 × 5 = 50
****	10 + 10 + 10 + 10 + 10 + 10 10 taken 6 times	10 × 6 = 60
****	10 + 10 + 10 + 10 + 10 + 10 + 10 10 taken 7 times	10 × 7 = 70
*****	10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 10 taken 8 times	10 × 8 = 80
*******	10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 +	10 × 9 = 90
****	10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 +	10 × 10 = 100

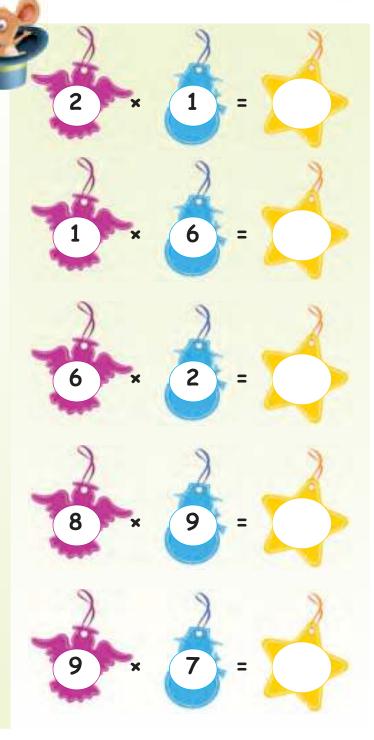






# Find the multiplication:



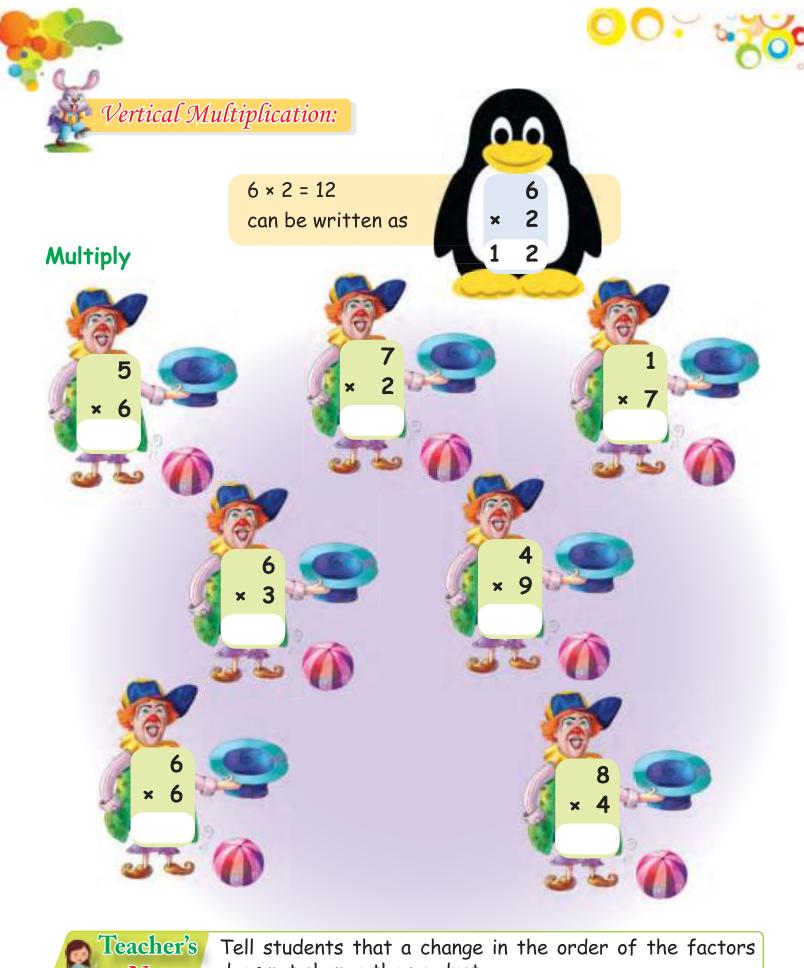




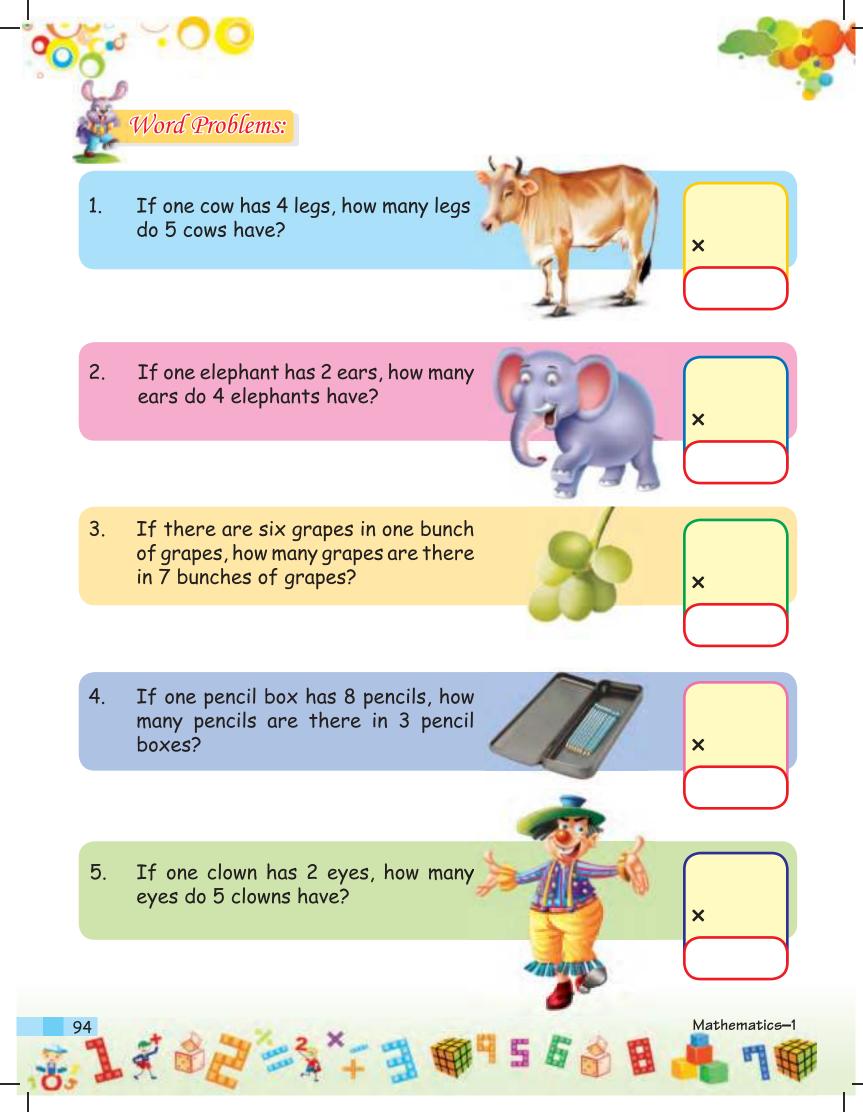
# Quick Tip

Every multiplication has a twin, which may be easier to remember. For example if you forget 8×2, you might remember 2×8=16. This way, you only have to remember half the table.





Note: does not change the product.









# Multiplication of 2-digit Numbers (Without Carry over):

# Multiply 24 by 2

Step- 1 : Multiply the ones.

2 ones × 4 ones = 8 ones

Write 8 in the ones column.

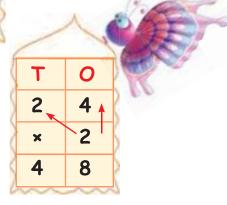
0
4 🛕
2
8

Step- 2 : Multiply the tens.

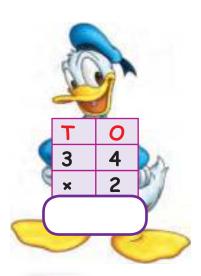
 $2 \text{ ones} \times 2 \text{ tens} = 4 \text{ tens}$ 

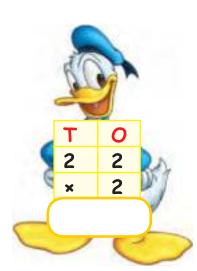
Write 4 in the tens column.

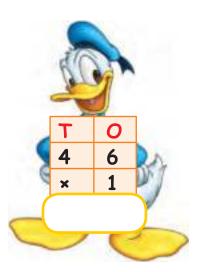
Product = 48



#### **Multiply:**









#### Facts to Know

In multiplication, the number being multiplied is called the multiplicand and the number by which it is being multiplied is called the multiplier.

14\_\_\_\_\_ Multiplicand

 $\times 2 \longrightarrow Multiplier$ 

= 28 ——→ Product





# Multiplication of 2-digit Numbers (With Carry over):

# Multiply 24 by 3:

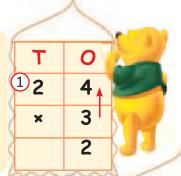
Step- 1 : Multiply the ones.

 $3 \text{ ones} \times 4 \text{ ones} = 12 \text{ ones}$ 

= 1 tens 2 ones

Write 2 in the ones column and

carry 1 in the tens column.



Step- 2 : Multiply the tens.

 $2 \text{ tens} \times 3 \text{ ones} = 6 \text{ tens}.$ 

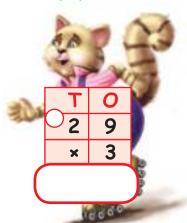
6 tens + 1 tens (carried over) = 7 tens.

Write 7 in the tens column.

Product = 72

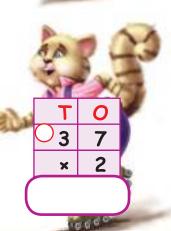
A-R		
115	Т	0
A A	12	4
	×	3
1	7	2

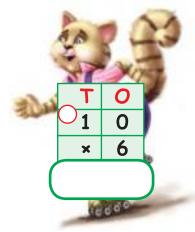
## **Multiply:**

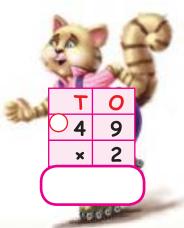




	A PO	P.	13
# Du	$\bigcirc_{1}^{T}$	0 5 2	7
	×	2	b
(	-	600	







Mathematics-1





1. 2 children sit in each row of a classroom. How many children will sit in 15 rows?



X

There are 3 buses. Each bus has 25 2. passengers. How many passengers are there in all?



3. There are 50 students in a class. Each student has 7 books. How many books are there in all?



X

4. There are 35 cars. Each car has 4 people inside it. How many people are there in all?



X

A shopkeeper bought 5 baskets of 5. mangoes. If there are 15 mangoes in each basket, how many mangoes did he buy?













## One child has 2 eyes.

How many eyes do 5 children have?











By repeated addition: \_\_\_\_\_ + \_\_\_\_ + \_\_\_\_

By multiplication: \_\_\_\_ = \_



#### Learn the tables and write the product:

#### B. Tick the correct answer:

## 2. When we multiply any number by 0, the products is always

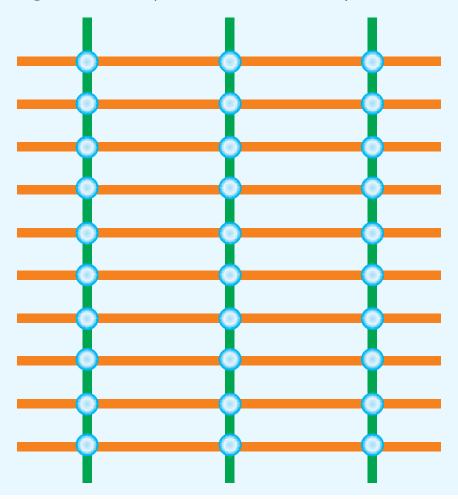


#### Materials required:

Straws, sketch colours.

#### Steps:

- 1. Arrange three straws vertically on a sheet of paper.
- 2. Now, take another straw and put horizontally on the previous three straws and colour the point of intersection with sketch colours. It represents  $3 \times 1 = 3$ .
- 3. Repeat the above steps by putting one more straw horizontally, intersecting at three more points. These represents  $3 \times 2 = 6$
- 4. By continuing this activity, we have the multiplication table of 3.







# Division



At the end of this lesson, students will be able to:

- · Make equal sets of the objects.
- Divide using repeated subtraction.

# Warm Up

It is Aman's birthday today. He is celebrating it with 5 of his friends. He buys 10 packets of chocolates. He distributes them equally among his friends. How many chocolates does he give to each of them?



When 10 chocolates are divided equally among 5 friends, each will get 2 chocolates.

We can write it as

$$10 \div 5 = 2 \text{ in } a$$

This is called equal distribution.

We also call it division.



'Division' means 'Equal Sharing'.

Division is indicated, by '÷' sign. Division is done using 'Repeated Subtraction' method.

A teacher had 5 chocolates.

She wants to give 5 chocolates equally

among 5 students.

Teacher gave 1 chocolate to Radha.

Now 4 chocolates are left.

Teacher gave 1 chocolate to Mona.

Now 3 chocolates are left.

Teacher gave 1 chocolate to Mini.

Now 2 chocolates are left.

Teacher gave 1 chocolate to Komal.

Now 1 chocolate is left.

Teacher gave 1 chocolate to Rashi.
No chocolate is left.

$$5 - 1 - 1 - 1 - 1 - 1 = 0$$



**FIDEDINE** 

2



4

1

Division makes equal sets



Elucidate the students that repeated subtraction is a method that subtracts the equal number of items from a group, also known as **division**. Using this method, the same number is subtracted repeatedly from another larger number until the remainder is zero, or smaller than the number being subtracted.



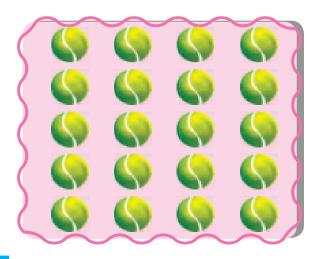


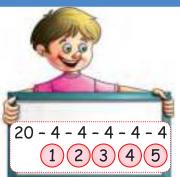
# Divide by Repeated Subtractions:

# Objects

# Repeated Subtraction

#### Division

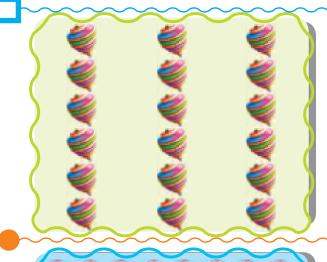






#### Procedure:

20 - 4 = 16 16 - 4 = 12 12 - 4 = 8 8 - 4 = 4 4 - 4 = 0









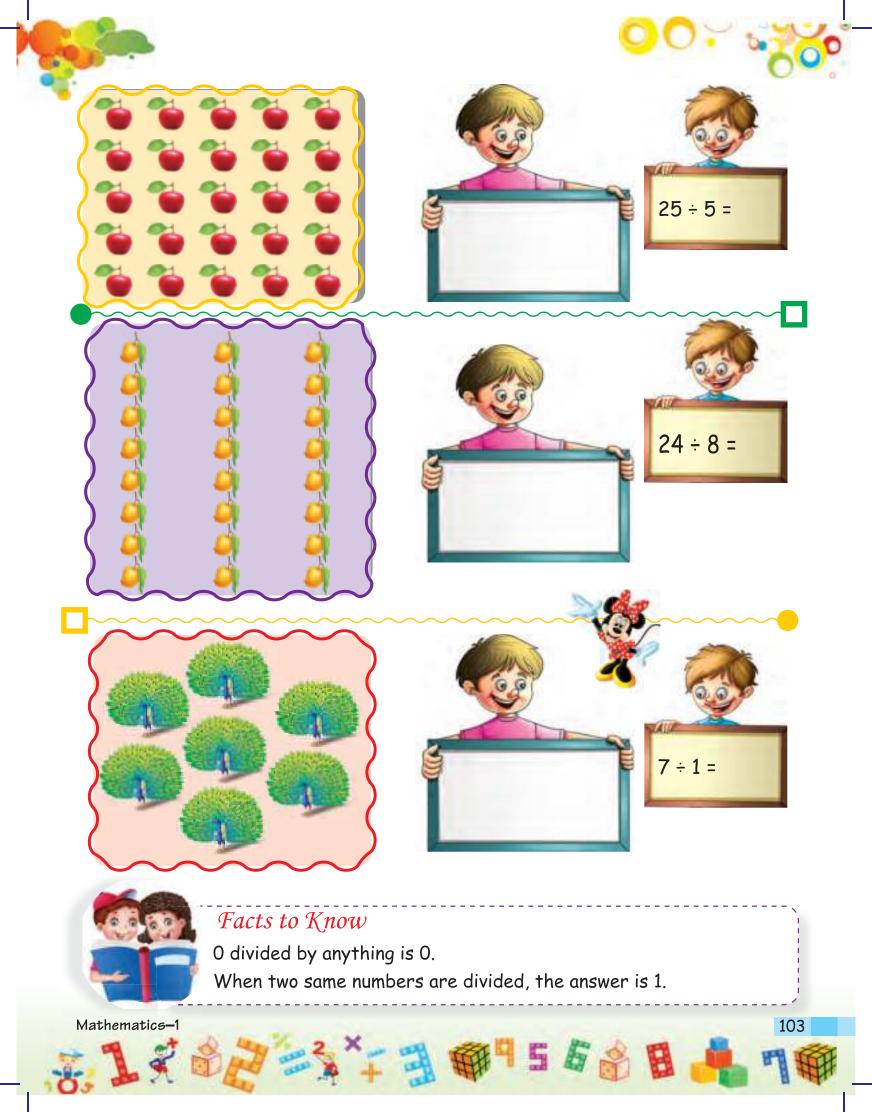




Mathematics-1

# Quick Tip

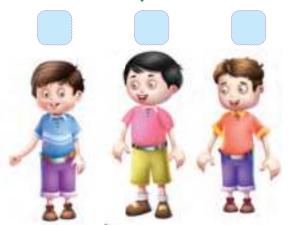
Any number divided by 1 is the number itself! For instance, 5 divided by 1 is 5.













#### Tick the correct option.

- 1. Division is a way of
  - a. repeated addition
  - c. repeated addition
- b. equal distribution
- d. None of these



- a. 5+3=8
- c.  $7 \times 2 = 14$

- b. 8-2 = 6
  - d.  $16 \div 4 = 4$
- 3. Among how many students can we distribute 18 chocolates, so that each student may get 6 toffees?
  - a. 9

- b. 2

c. 3

- d. 5



a. 0



b. 10

1

c. 5

d.



6 a.

C.



d. 2

7





#### Materials required:

Some toffees and a bowl.

#### Steps:

- 1. Take 12 toffees and put them in a bowl.
- 2. Now call three students near the table. Ask each of them to pick one toffee from the bowl and mark a  $(\checkmark)$  on the blackboard.
- 3. Now ask each of them to pick one more and put mark on the blackboard.
- 4. Ask them to repeat the activity untill the bowl is empty.
- 5. Now ask them to count  $(\checkmark)$  and write the division facts using repeated subtraction,  $12 \div 3 =$
- 6. Repeat this activity with different numbers of toffees and different group of students.









# Measurements



**Learning Objectives** 

At the end of this lesson, students will be able to:

- Compare length.
- · Observe and measure length using objects and body parts.
- · Measure and compare weights and capacities of the objects.



Mr. Fox welcomes you to the world of the jungle. Observe the picture, think and circle the appropriate answer.



Who is smaller?

Who is the biggest?

Who is the tallest?

(fox / squirrel)

(duck / parrot / elephant)

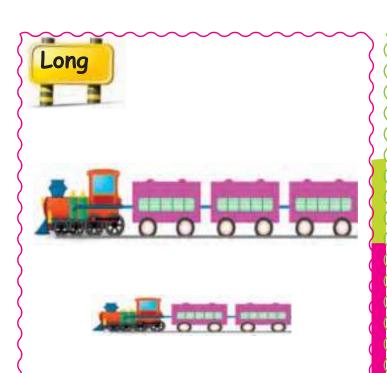
(peacock / giraffe)



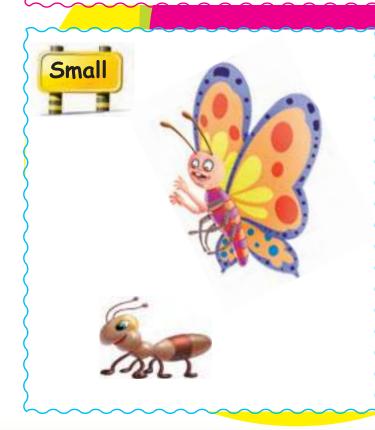






























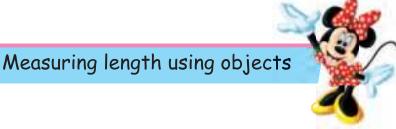


Teacher's Note:

Give the students pairs of objects. E.g. a water bottle and a lunch box. Let them take those in each hand and decide which is heavier.







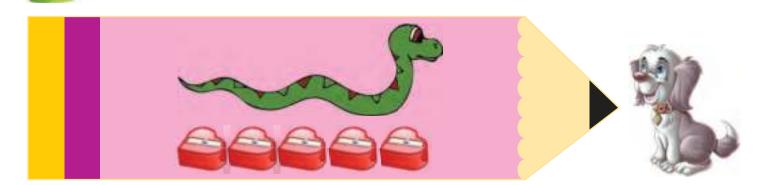
We can measure an approximate length of an object with the help of an another object.



The length of this pencil is equal to 8 erasers.



### Watch and Write:

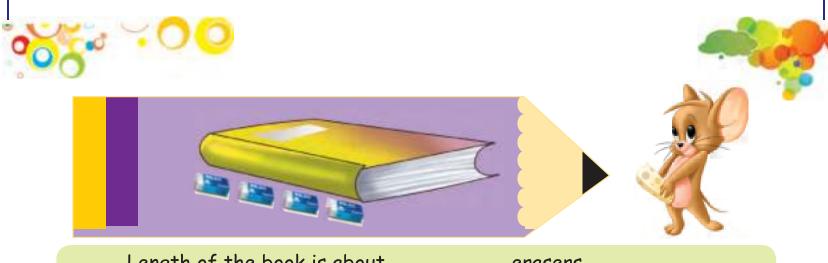


Length of the snake is about ...... sharpners.



Length of the toothbrush is about ...... crayons.





Length of the book is about .....



Length of the table is about ..... pencils.



Length of the bat is about ..... pens.



Length of the tubelight is about ...... pencils.



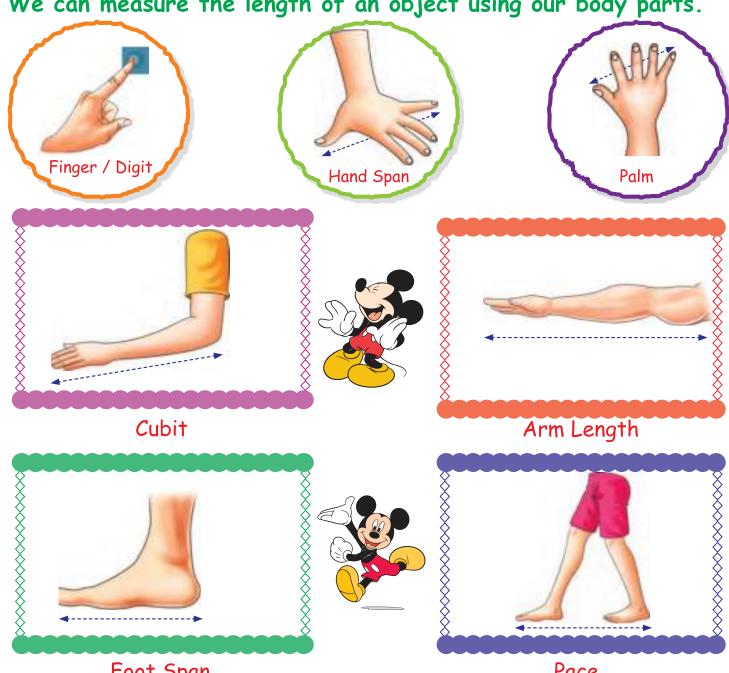
#### Quick Tip

A longer body always has more length than a shorter body and it is big in size as compared to the small body.





We can measure the length of an object using our body parts.





Pace



#### Facts to Know

In ancient times, the length of a foot, the width of a finger, and the distance of a step were all accepted measurements.

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#### -00 -00

#### Look at the pictures carefully:





Measurement by Finger / Digit

Measurement by Hand Span



Measurement by the Palm

Measurement by Cubit



Measurement by Arm Length



Measurement by Foot Span



Measurement by Pace

Mathematics-1





1. My desk is ..... cubits long.

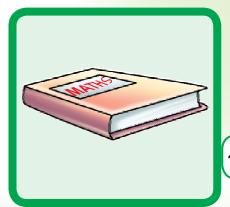




2. My pencil is ...... digits long.

3. My bat is ......hand spans long.





4. My mathematics book is ..... palms long.







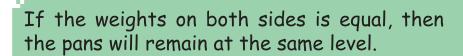
We can measure weight of an object with the help of weighing scale. Weighing scale has two pans.



The lighter side of a weighing scale moves up.



The heavier side of a weighing scale moves down.





#### Look at the pictures and read the sentences carefully:



A lion is heavier than a monkey.



A monkey is lighter than a lion.



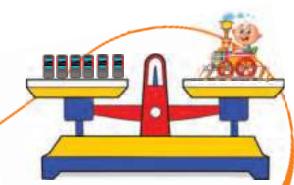
A crow and a parrot weigh the same.



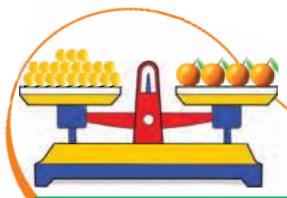
#### Watch and Write:



One bat weighs as much as ...... apples.



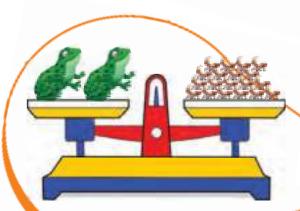
6 mobiles weigh the same as .....toy.



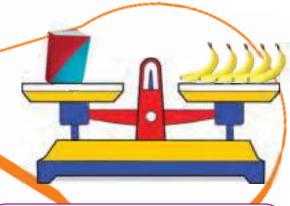
20 lemons weigh the same as ...... oranges.



1 pencil box weighs the same as ..... mangoes.



20 ants weigh the same as frogs.



1 book weighs the same as bananas.



We can measure capacity of liquids (such as water, milk, juice, etc.) using cups, glasses, mugs, bottles, jugs, buckets, etc.



#### Look at the pictures and read the sentences carefully:



A glass can hold 1 glass of water.



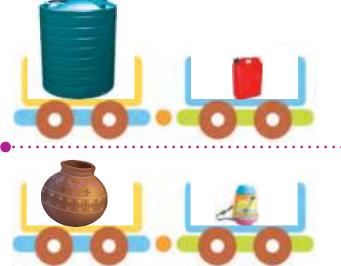
A jug can hold 8 glasses of water.

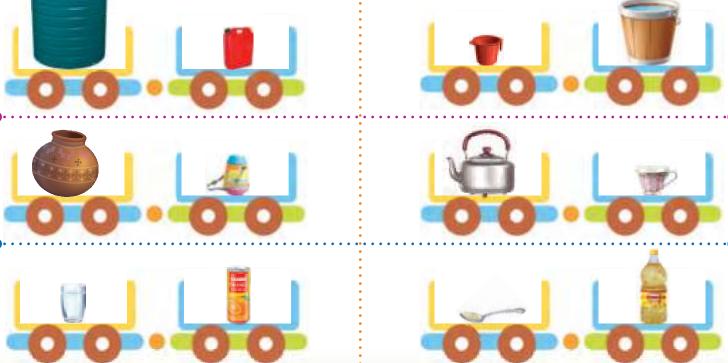
It means,

A glass holds less water than a jug.

A jug holds more water than a glass.

















Amaira measures the blackboard.

It is 8 handspans long.

Can you tell why?



Amaira's teacher measures the same blackboard.

It is 5 handspans long.



#### Use the following body parts to measure the length.

- a. My desk is \_\_\_\_\_ handspans long.
- b. My eraser is \_\_\_\_\_ digits long.
- c. My blackboard is \_\_\_\_\_ palms long.
- d. My classroom is \_\_\_\_\_ footspans long.
- e. The distance between the table and the black board is about \_\_\_\_\_\_ paces.





#### Materials required:

Long ribbon strips and ice cream sticks.

#### Steps:

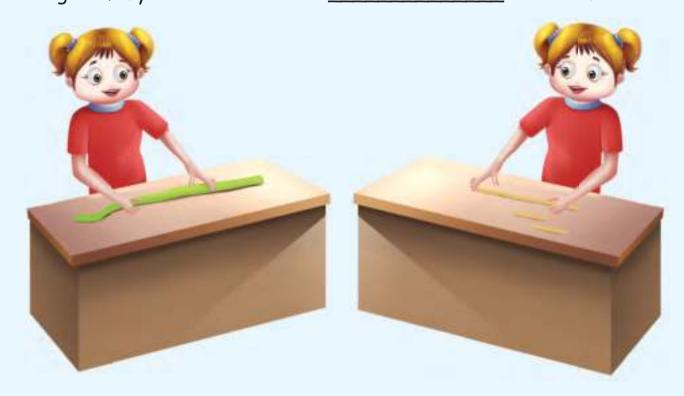
- 1. Take a ribbon strip and measure your table with it.
- 2. Mark the point up to which the ribbon strip comes.
- 3. Now, use the ice cream sticks to measure this length of ribbon and note down the reading.

My table is \_\_\_\_\_ ice cream sticks.

4. Repeat the above steps to find the length of your shirt, skirt or trousers, etc.

Length of my shirt is \_\_\_\_\_ ice cream sticks.

Length of my skirt / trousers is \_\_\_\_\_\_ ice cream sticks.







## Time and Calendar



# Learning Objectives

At the end of this lesson, students will be able to:

- Use the clock to tell the time to the nearest hour.
- Draw the minute and hour hand on the clock according to the time said.
- Name the days of the week and months of the year in proper order.



#### Warm Up

Tick (✓) the correct columns.

Activity	Morning	Afternoon	Night
Brushing teeth			
Having lunch			
Sleeping			
Having dinner			
Watering plants			





Teacher's Note:

#### Brief the children that:

• Morning is from sunrise to 11:59 AM.

- Noon is at 12:00 PM.
- Afternoon is from 12:01 PM to around 5:00 PM.
- Evening is from 5:01 PM to 8 PM, or around sunset.
- Night is from sunset to sunrise, so from 8:01 PM until 5:59 AM.

# Measuring Time:

This is a clock.

Clock tells us time.



The face of the clock is known as its dial.

There are twelve numbers on the face of the clock. These are 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12.



The short hand is the hour hand.

The long hand is the minute hand.

Minute hand



The minute hand (long hand) is at 12. The hour hand (short hand) is at 4.

The time is 4 o'clock). It can be read as four o'clock.

It can also be written as, (4:00)



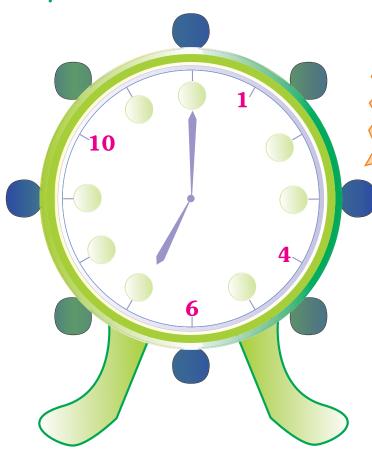
Quick Tip

The numbers in a clock face are for counting hours. The 60 small lines are for counting minutes.



#### Complete the clock numbers:





When both minute hand and hour hand is at 12, then the time is 12 o'clock or 12:00



Mathematics-1



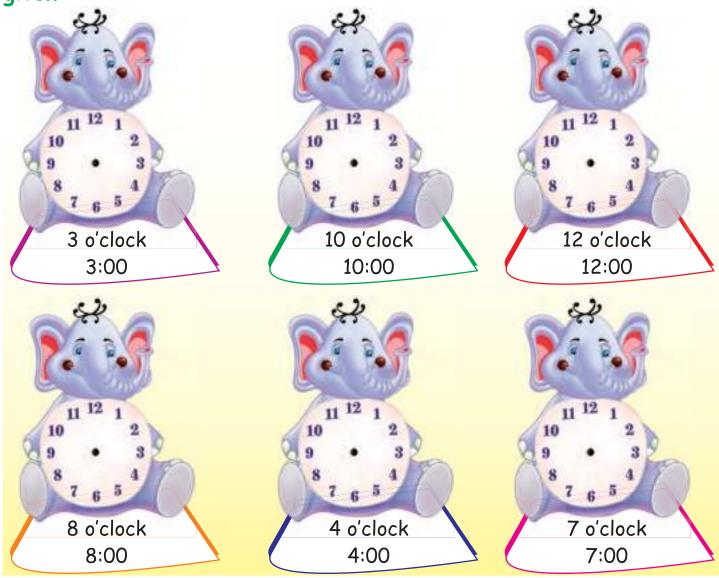
#### Fill in the blanks:

- 1. The minute hand is on
- 2. The hour hand is on
- 3. It is ..... o'clock.





Draw hour hand and minute hand on each clock to show the time given:



# Daily Routine:





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

I get up at 6 o'clock in the morning.





I take my breakfast at ......in the





I go to school at ..... in the





I come back home from school at ...... in the .....





I take my lunch at ......in the ......





I do my homework at ......in the .....





I take my dinner at ......in the .....





Mathematics-1

I go to bed at ..... in the





#### 2024

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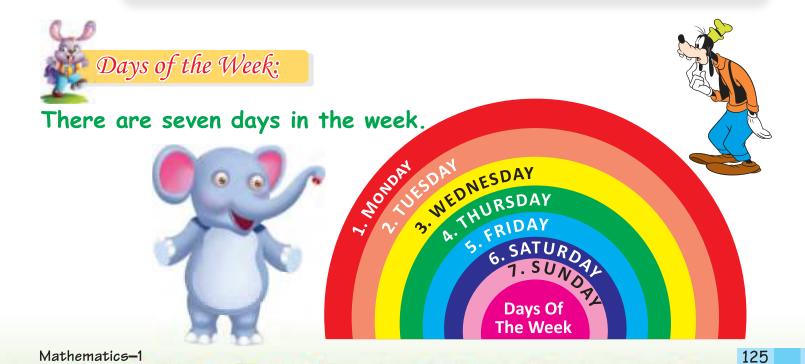
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#### Facts to Know

A calendar is a dating system that is used all over the world to keep a track of days, weeks, months, and years.

During the ancient days, the course of the Moon and Sun were used for timekeeping. Gradually these techniques were optimised to create a more systematic tool called Calendar.





Monday is the first day of the week.

Tuesday is the second day of the week.

Wednesday is the third day of the week.

Thursday is the fourth day of the week.

Friday is the fifth day of the week.

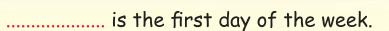
Saturday is the sixth day of the week.

Sunday is the seventh day of the week.

Remember The cycle of the days of the week goes on and on.

Mathematics-1





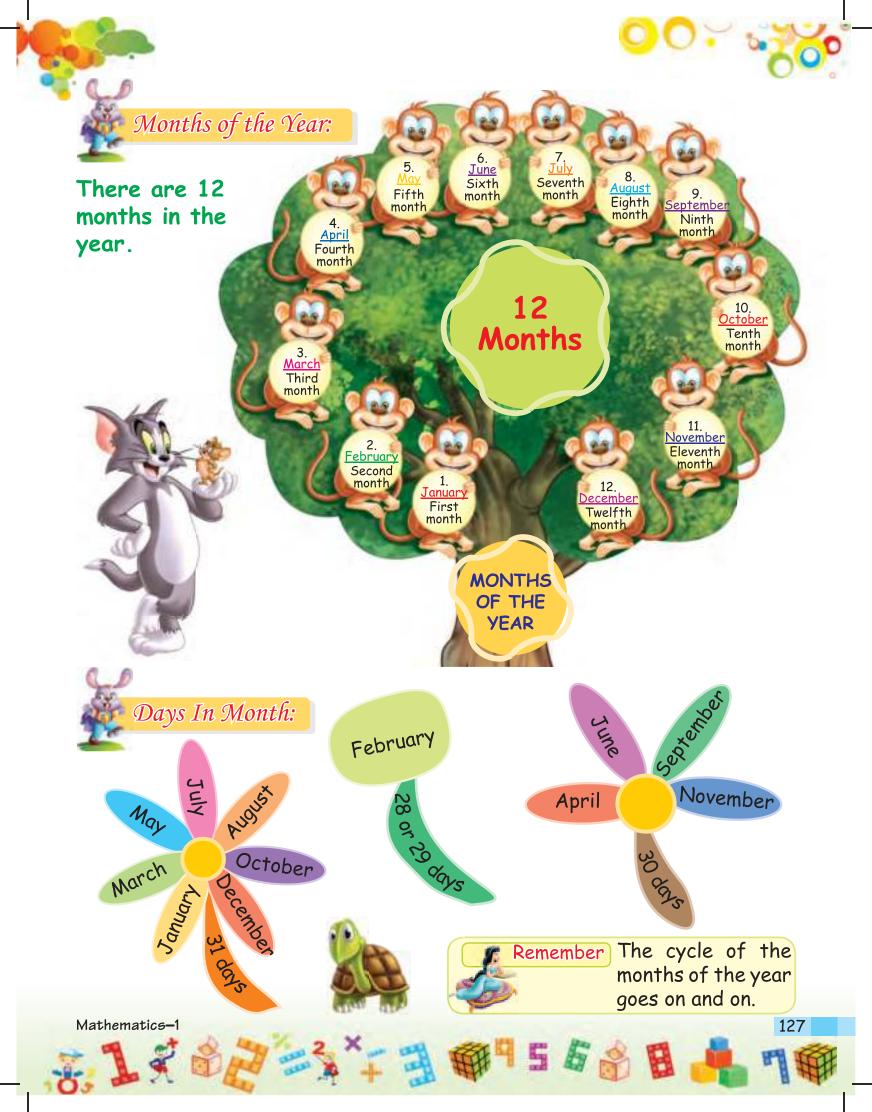
.... is the last day of the week.

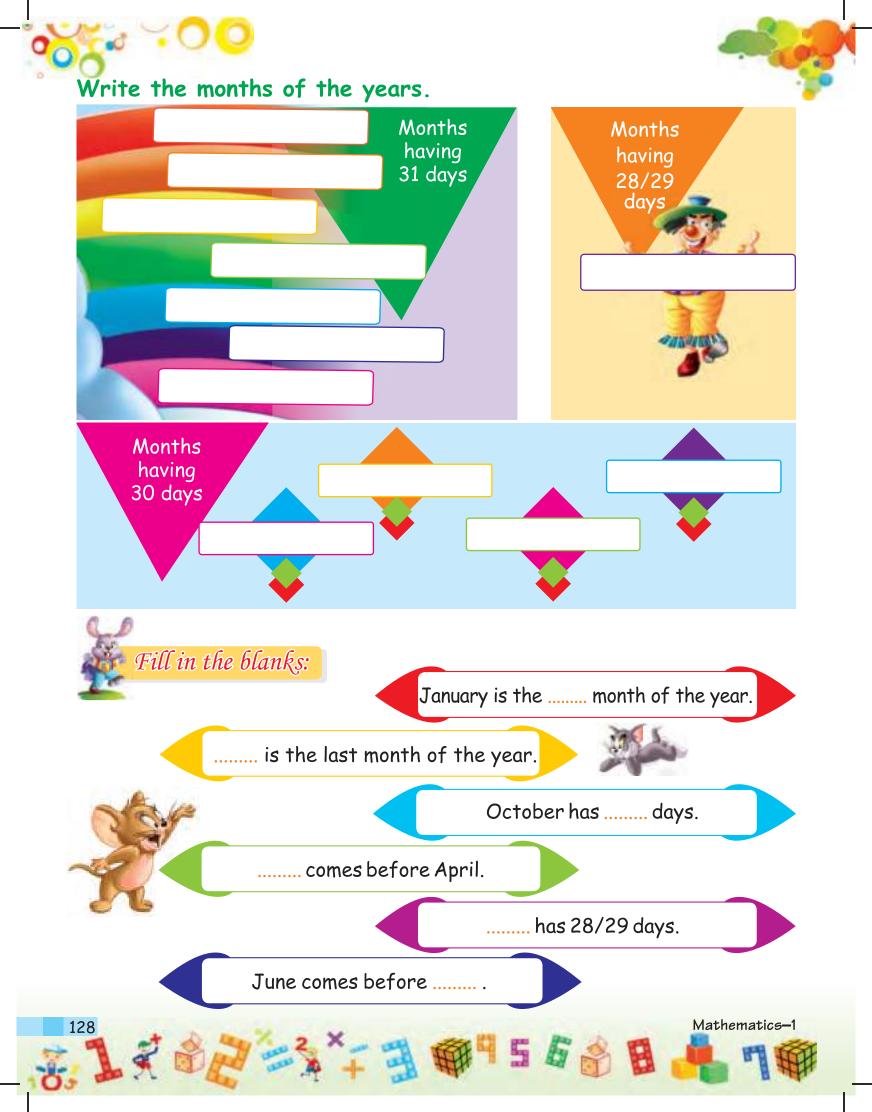
Wednesday comes before ......

..... comes after thursday.

On the school remains closed.

comes between monday and wednesday.









Kanchan owns a cosmetic shop. She doesn't open her shop on Saturday and Sunday every week.

Today is Monday. Did Kanchan open her shop yesterday? \_\_\_\_\_\_\_
Will she open it tomorrow? \_\_\_\_\_

#### A. Fill in the blanks:

a.	There are		days	in a	week	ί.
----	-----------	--	------	------	------	----

- b. \_\_\_\_\_ comes between Wednesday and Friday.
- c. comes before March.
- d. There are \_\_\_\_\_ months in a year.

#### B. What is the time when the:

- a. Minute hand is at 12, hour hand is also at 12?
- b. Hour hand is at 3, minute hand is at 12?
- c. Minute hand is at 12, hour hand is at 6? \_\_\_\_\_
- d. Hour hand is at 7, minute hand is at 12?



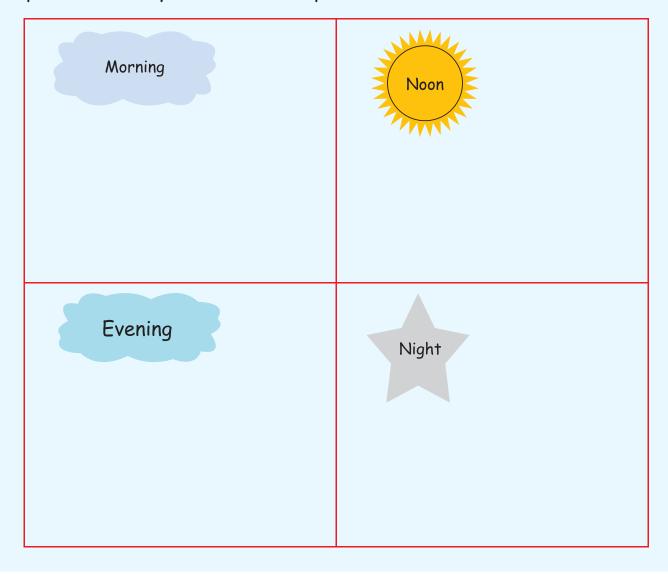


#### Materials required:

Pencils and crayons.

#### Steps:

1. Divide your day into 4 parts - morning, noon, evening and night, Draw a picture in each box showing an activity that you generally do in that part of the day and colour the picture.







# Money



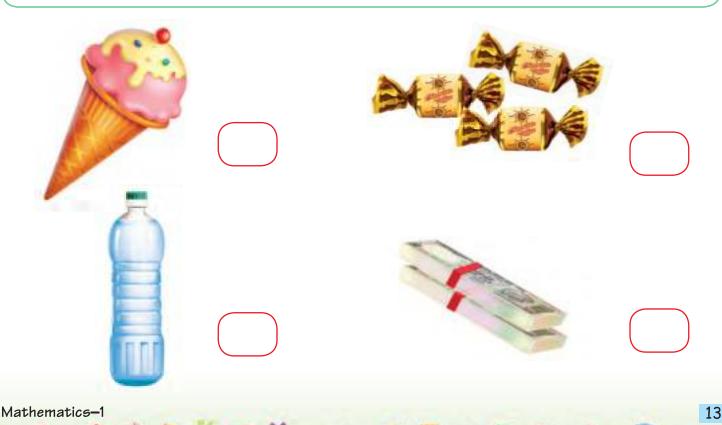
# Learning Objectives

At the end of this lesson, students will be able to:

- Identify different coins and notes.
- Utilise money for shopping activities.
- Count the amount of money.

#### Warm Up

Peeku and Pihu wants to buy a teddy bear from a toy shop. The shopkeeper is showing them the toys and they choose one out of them. What will they give to the shopkeeper to buy that teddy bear?





My mummy goes to market for shopping. She takes money along with her.

Money is very important to buy things.

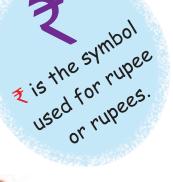
Money is in the form of currency notes and metallic coins.



#### Commonly Used Coins:



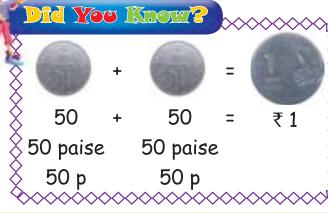












Teacher's Note:

Show the students different coins and notes. Also, tell them that there are various symbols on the notes and coins which help our currency to stand out from others

and helps to differentiate it from similar currencies which are Pakistan, Sri Lanka and Indonesia.





#### Commonly Used Notes:



Five rupees ₹ 5



Ten rupees ₹ 10



Twenty rupees ₹ 20



Fifty rupees ₹ 50



One hundred rupees ₹100



Two
hundred
rupees
₹ 200



Five hundred rupees ₹ 500

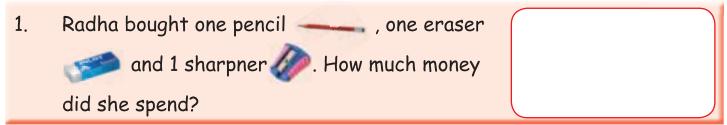


Quick Tip

When counting notes or coins of different value, start with the highest value note or coin.







- 2. Shivani bought one ice cream and one packet of uncle chips . How much money did she spend?
- 3. Ruchi bought one burger and 1 cake

  . How much money did she spend?
- 4. Rajat has ₹ 50. He bought 2 balloons ,
   1 choclate and 1 kite . How much money is left with Rajat?
- 5. Kushal had ₹ 65. He bought 2 samosas ,5 toffees and 1 packet of uncle-chips. How much money is left with Kushal?

Facts to Know
The lines (horizontal) on the Symbol ₹ is known as Shrio Rekha which is a unique feature of the Devnagri Script. The Rupee symbol preserves this feature of the Indian script.

symbol preserves this feature of the Indian script.

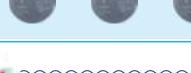
The current currency notes, which is also known as the Mahatma

The current currency notes, which is also known as the Mahatma Gandhi Series, were originated in the year 1996.





How many 50 paise coins will be required to make 3 rupees?





#### A. Tick (✓) the correct option.

⊥.	The commonly	useu	COMS	ure		
	a. ₹1				b. ₹ 2	

c. ₹ 5	d. All of these	
C. \ \ \	u. All of these	

a. ₹10	b. ₹ 5	
--------	--------	--

#### 3. We can exchange ₹ 50 note with

#### 4. 3 coins of ₹ 1 is equal to







#### Materials required:

coins and notes of different denominations and a table.

#### Steps:

- 1. Place coins and notes on the table.
- 2. Allow pupils to touch and feel the information presented on each.
- 3. Now, invite students to make a decision about how much money is placed on the table:

₹ 20

₹ 14

₹ 35

₹9

For instance, ₹ 14 can be formed in a variety of ways, as seen below.









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