



GOVERNMENT OF TAMIL NADU

# STANDARD ONE

TERM - II

VOLUME 2

MATHEMATICS  
ENVIRONMENTAL SCIENCE

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Department of School Education

**Untouchability is Inhuman and a Crime**



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# MATHEMATICS

## STANDARD ONE

### TERM - 2





# MATHEMATICS

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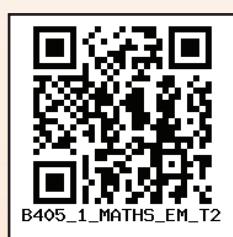
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E-Book



Evaluation



Digilink



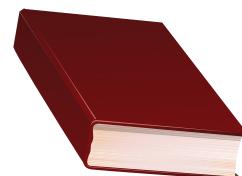
## Unit 1

# Geometry

**Keywords**  
Square, Rectangle,  
Circle, Triangle

### Recall

Who am I?

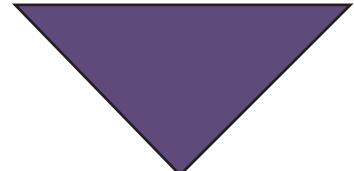


### Teacher's Note

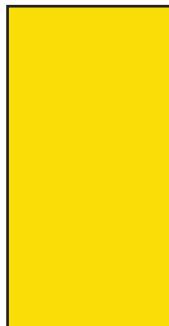
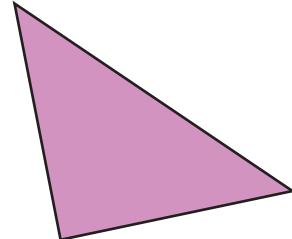
Call a student and tie a kerchief over her eyes. Give an object to the child to touch and feel. Ask whether it is flat or round? Continue the same with other objects.

### Practice

How many corners are there?



How many edges are there?





## 1.1 Introduction to basic shapes

Travel through



Shall we go to the shop?

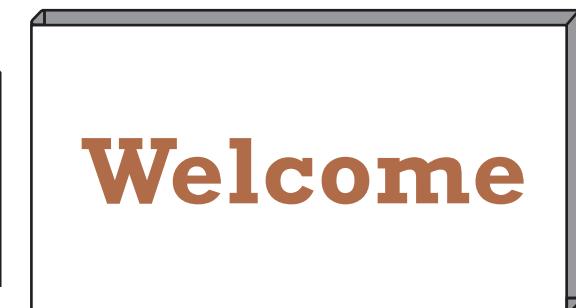
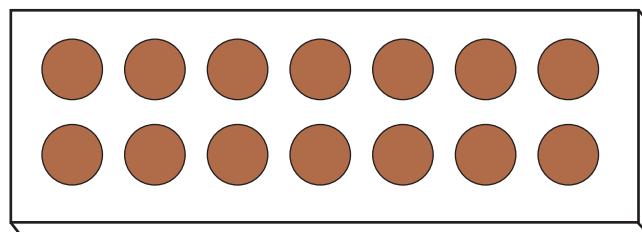
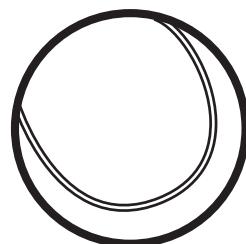
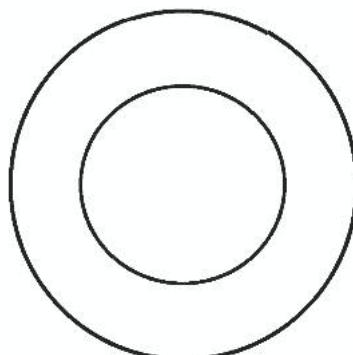
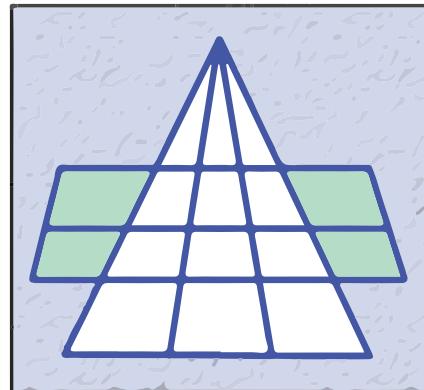
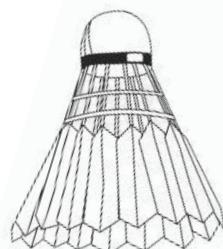
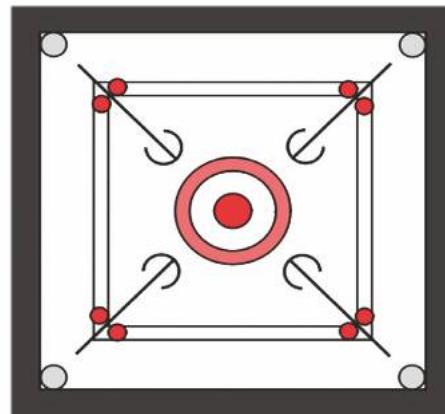
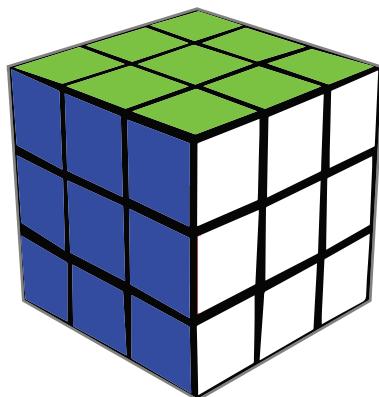




## Try this



Look at the picture given in the previous page and colour the similar objects given below with the same colour.

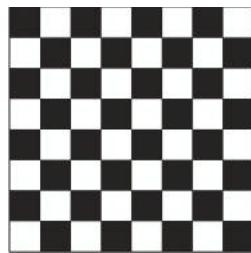




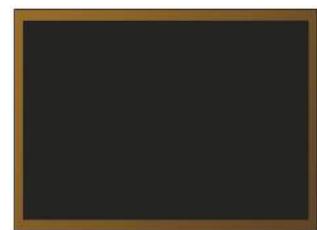
## Learn



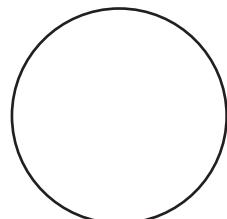
Let us learn the name of the basic shapes.



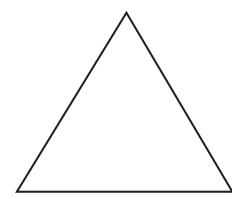
Square



Rectangle



Circle



Triangle

## Try this



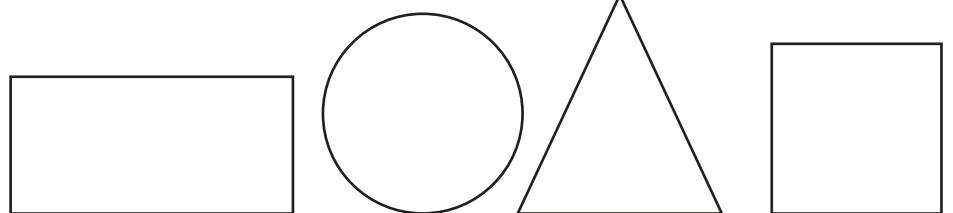
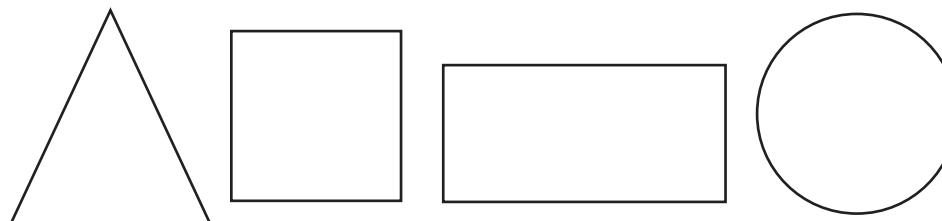
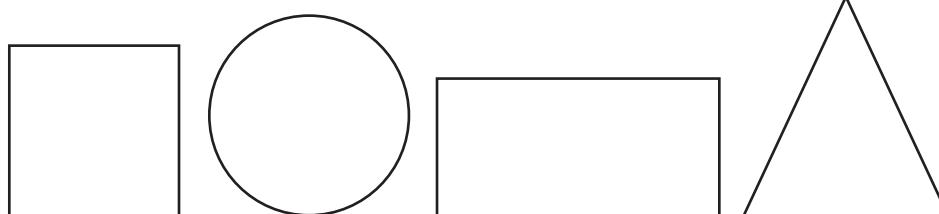
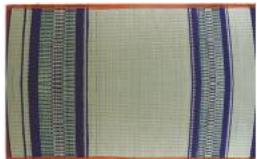
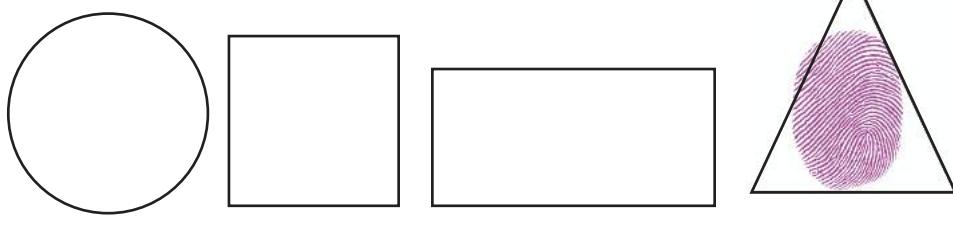
Can you suggest one more example for each shape?



## Practice



Place your thumb impression on the shape which is similar to the object.



## Activity



### Play with clay

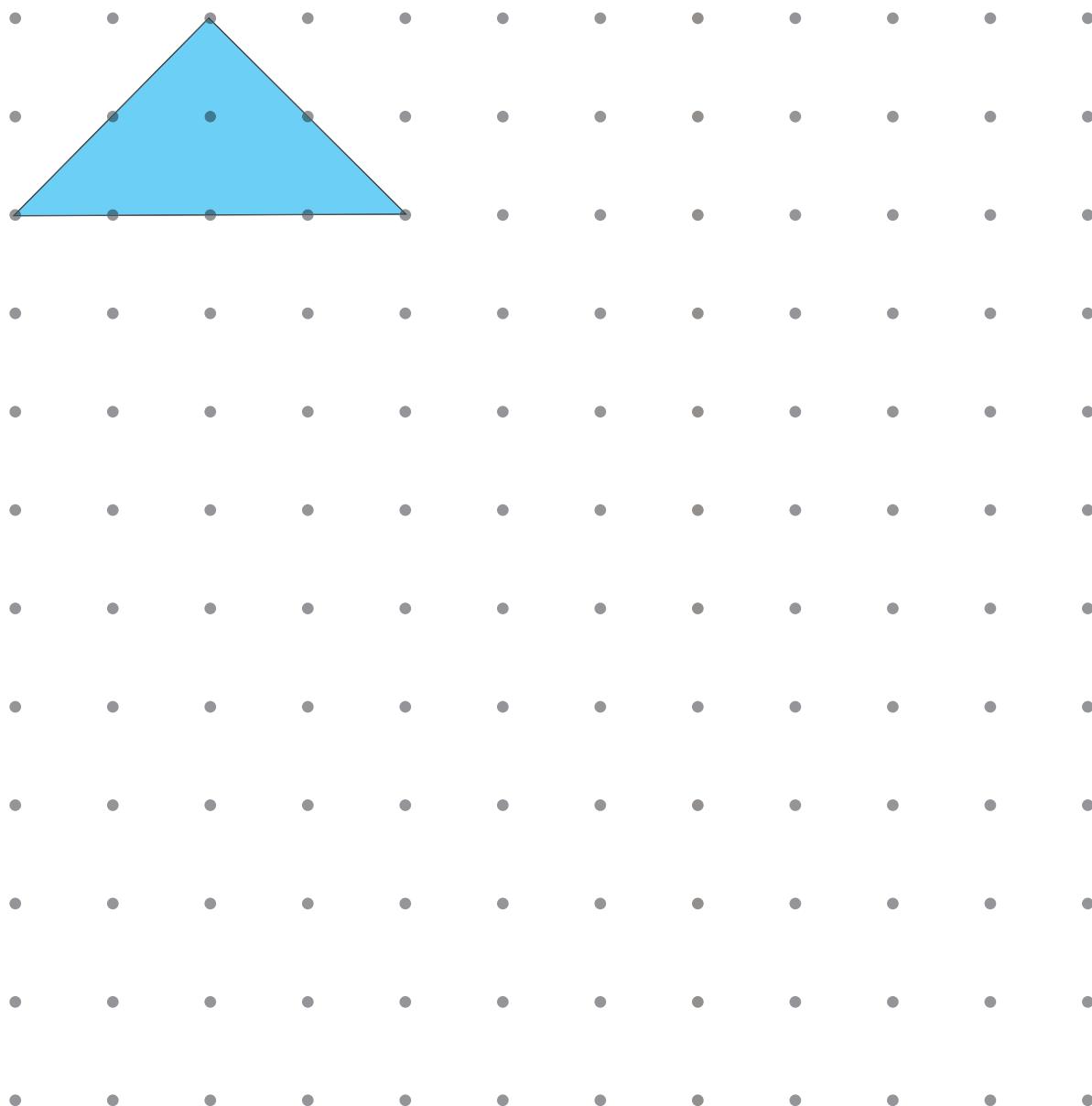
Create different shapes of your own using clay and display them.



## Try this



Join the dots and get different shapes. One is done for you.



## Think like a Mathematician



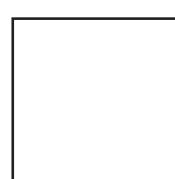
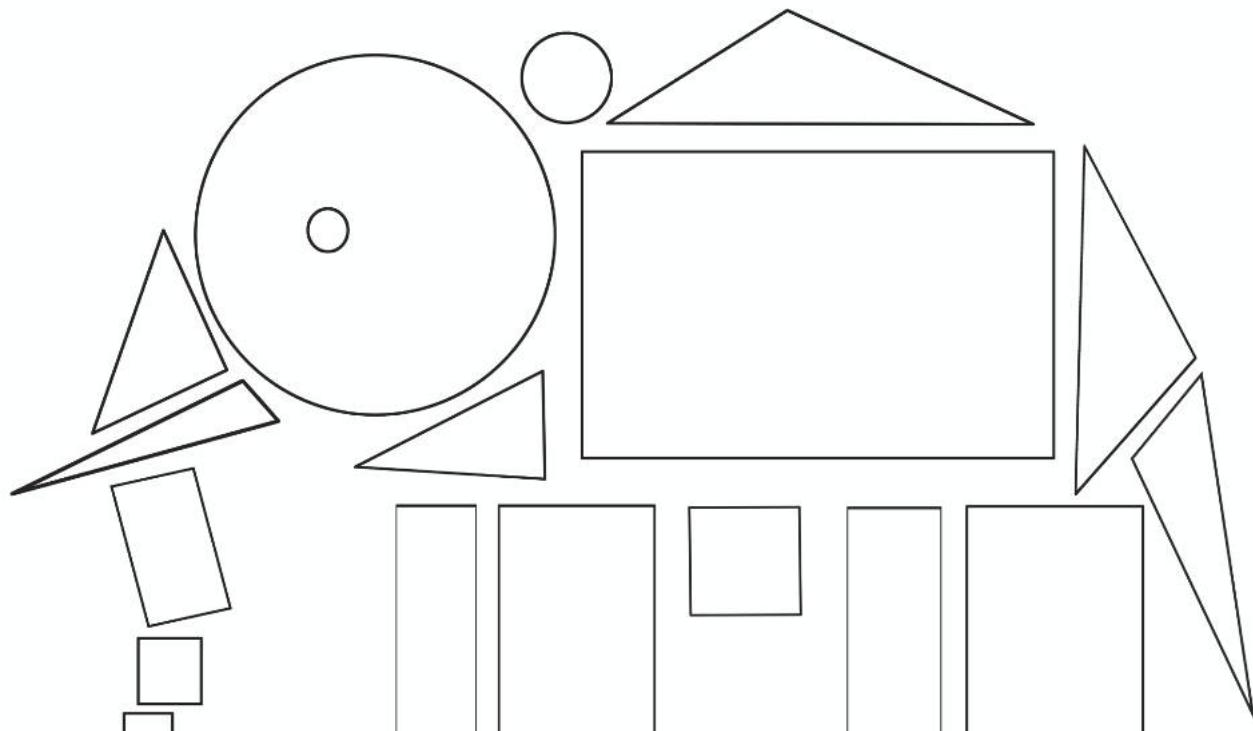
1. Can you draw basic shapes in different sizes using the given dots?
2. Can you draw a circle by joining the given dots?



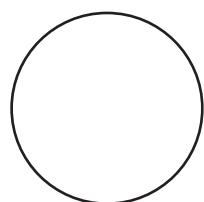
## Pleasure time



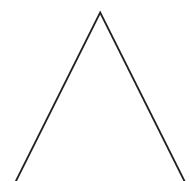
In the given picture, shade the similar shapes with same colour.  
Count and write them below.



.....



.....



.....



.....



## Game 1

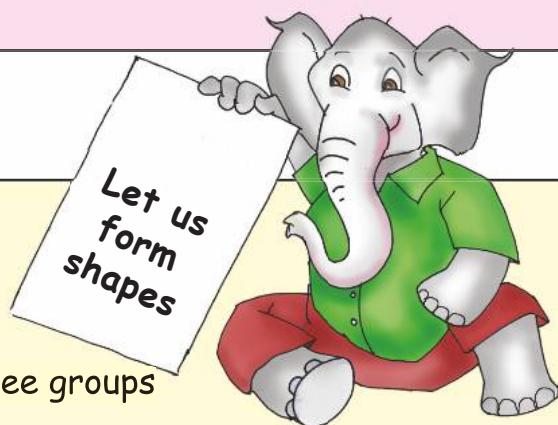


### Procedure:

- ▶ Draw the shapes of square, triangle, rectangle and circle on the floor.
- ▶ When the teacher starts clapping, students have to run around the shapes.
- ▶ When the teacher stops clapping, all the students should stand on any one of the shapes, as they like.
- ▶ Now the teacher can show any one of the shape cards. Then the students who are standing on that particular shape will clap and say the name of it loudly (Eg: If the teacher shows the 'square' card, the students standing on the 'square' shape will clap and say the name 'square' loudly).
- ▶ Teacher can continue the game till the students get familiarized with all the shapes.

## Game 2

### Procedure:



- ▶ Divide the students into two or three groups according to the strength of the class.
- ▶ When the teacher says the name of any one of the shapes, all the children in the groups should move to form that particular shape.
- ▶ Teacher can appreciate the group which forms the said shape correctly and quickly.
- ▶ Teacher can repeat this game for different shapes also.



## 1.2 Introduction to straight lines

Learn

Observe and trace the lines.

Keywords

Horizontal line

Vertical line

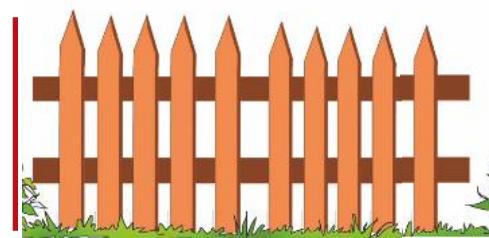
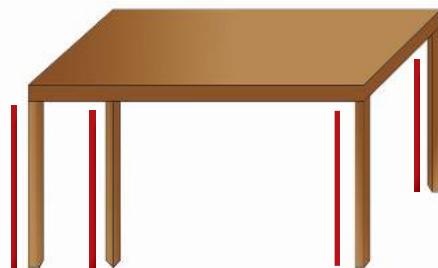
Slanting line



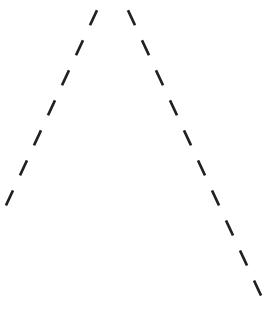
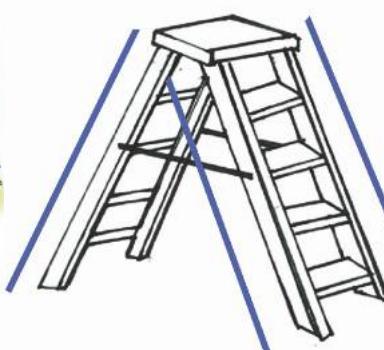
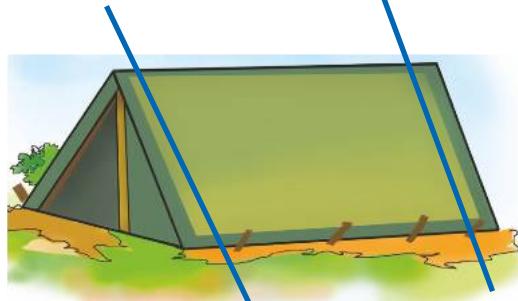
Horizontal line



Vertical line



Slanting line





## Practice



Trace the picture by using the given colourful lines.

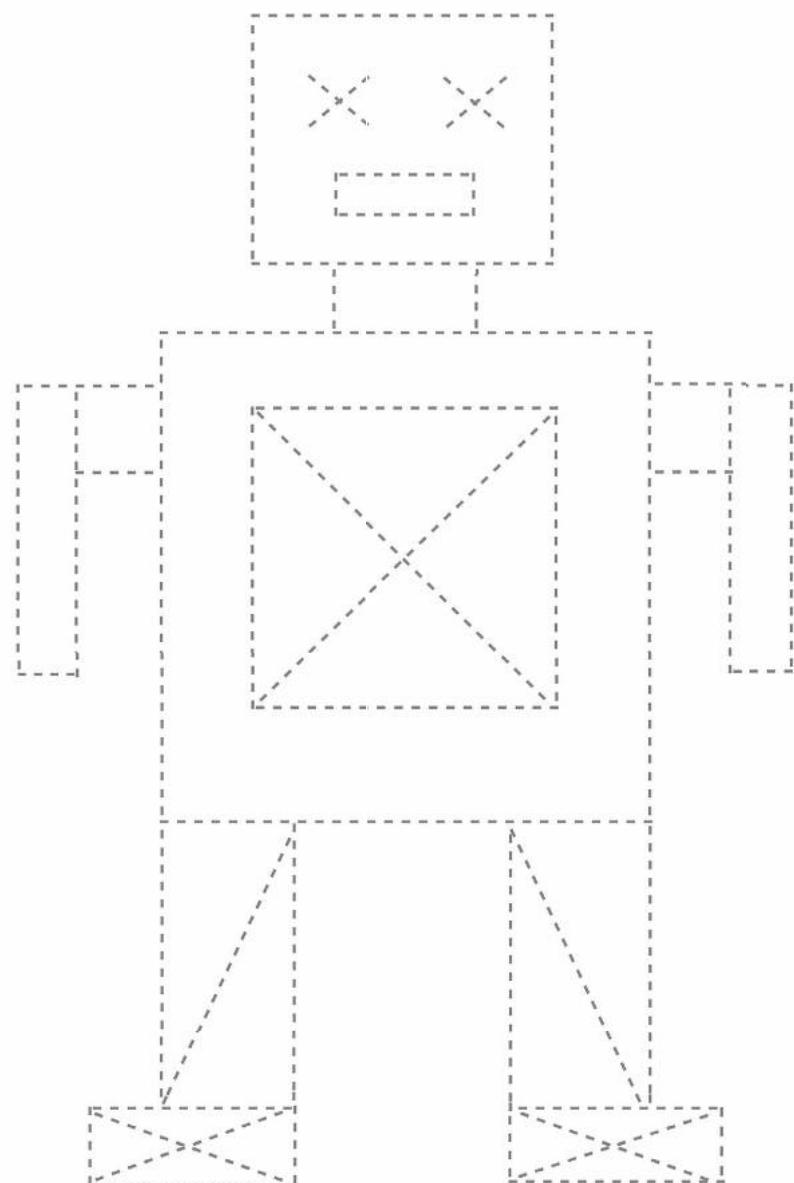
Horizontal line



Vertical line



Slanting line



### Teacher's Note

Teacher needs to make the children familiarize with the variety of slanting lines.



## Think like a Mathematician

Trace and observe the type of lines in the alphabet. Count and write.



Lines in the alphabet			
	1	0	2



## Activity

Draw the pictures of your own using Horizontal line, Vertical line and Slanting line. One is done for you.





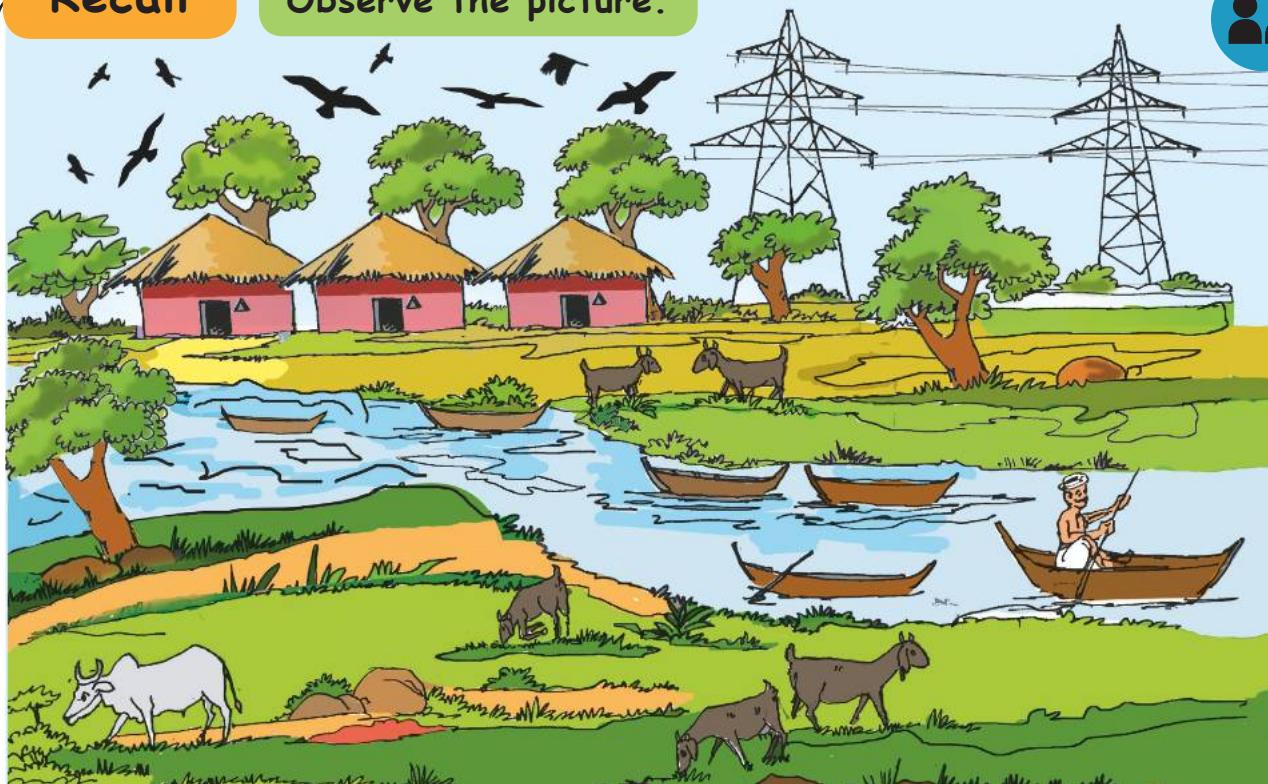
## Unit 2 Numbers

Keywords

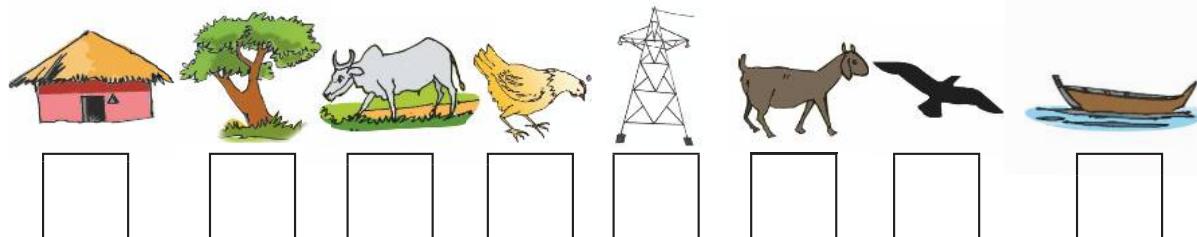
Numbers, Before,  
After, Between

Recall

Observe the picture.



- Count the following objects from the above picture and write their count.



- Circle the numbers given below, that are found to be left in the above count.

1    2    3    4    5    6    7    8    9    0

- Colour the same numbers with the same colour. One is done for you.

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

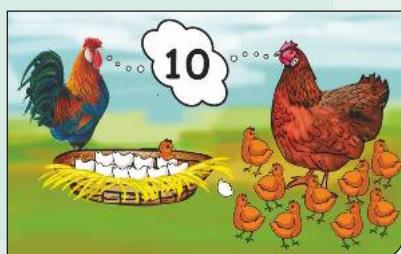
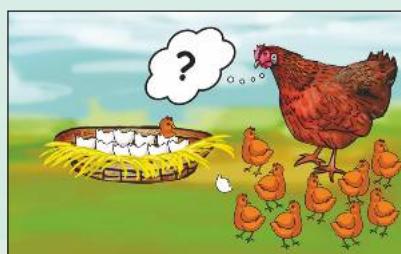
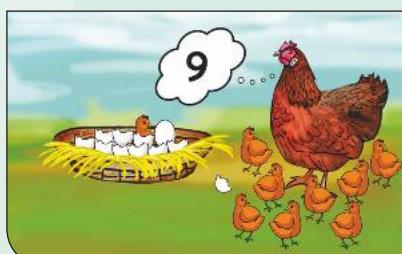
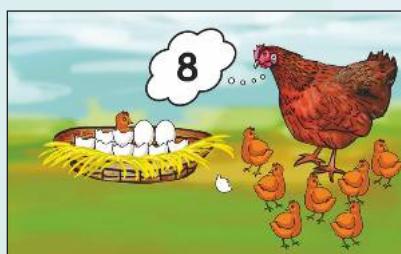
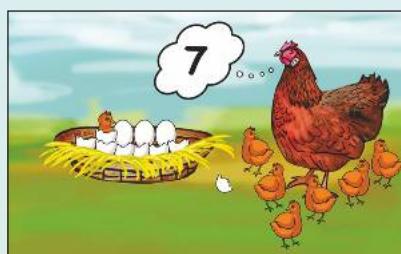
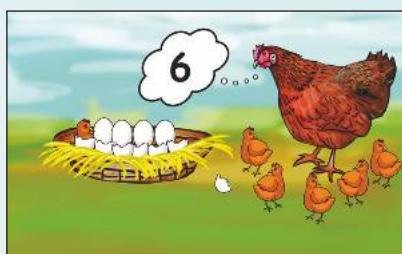
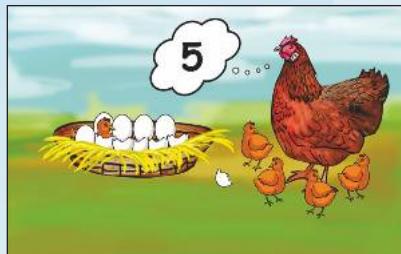
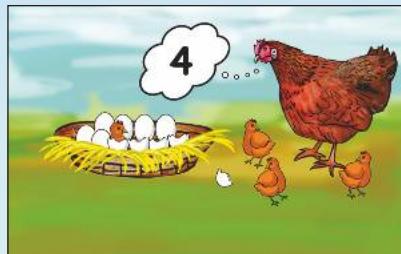
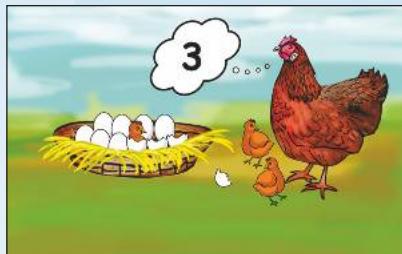
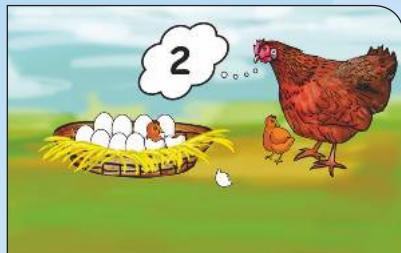
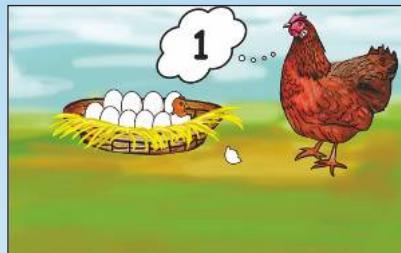
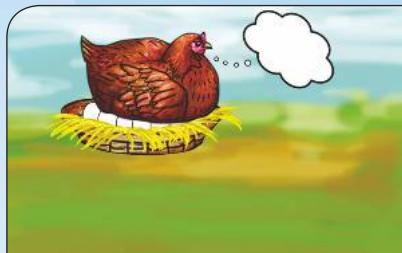


## 2.1 Introduction to number 10

Travel through



Counting the chicks.



Teacher's Note

Narrate the above story for the introduction of number **10**.



## Learn



Let us learn what comes after 9 by completing the table.

Beads	Fingers	Number
		0
		1

and one more makes ?

		10
--	--	----

10 is read as Ten.

10 ones = 1 ten

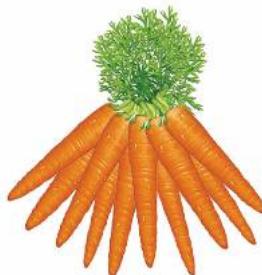
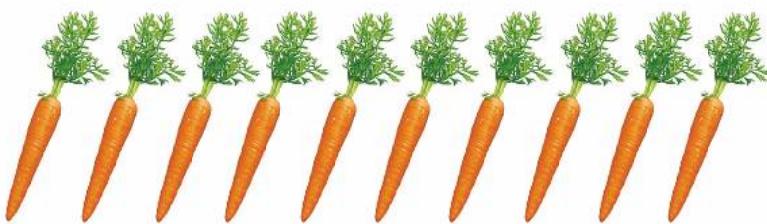


## Learn

Let us make groups of 10.

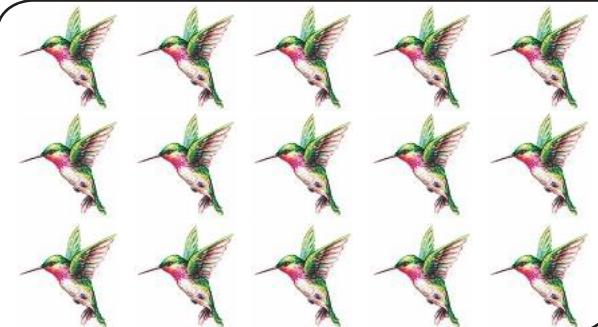
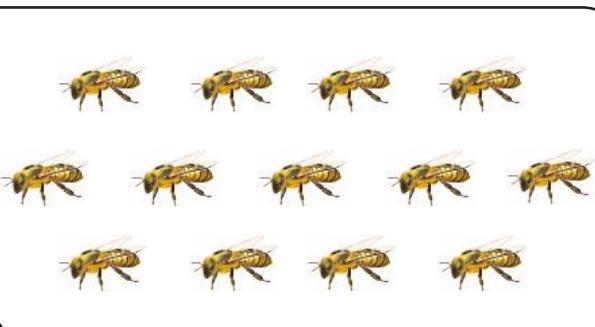
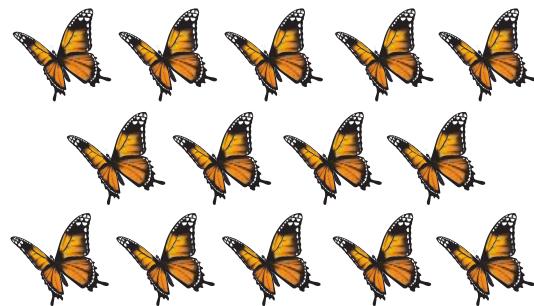
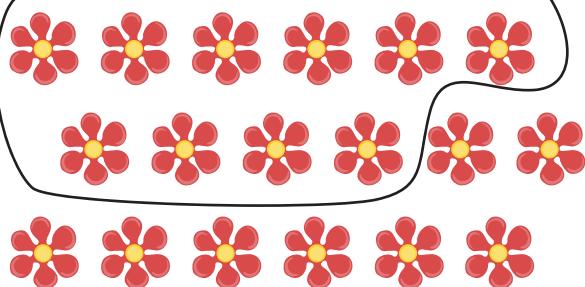


To make counting of large number of objects easier,  
we group 10 ones and make one bunch of ten.



## Practice

Circle groups of 10.



### Teacher's Note

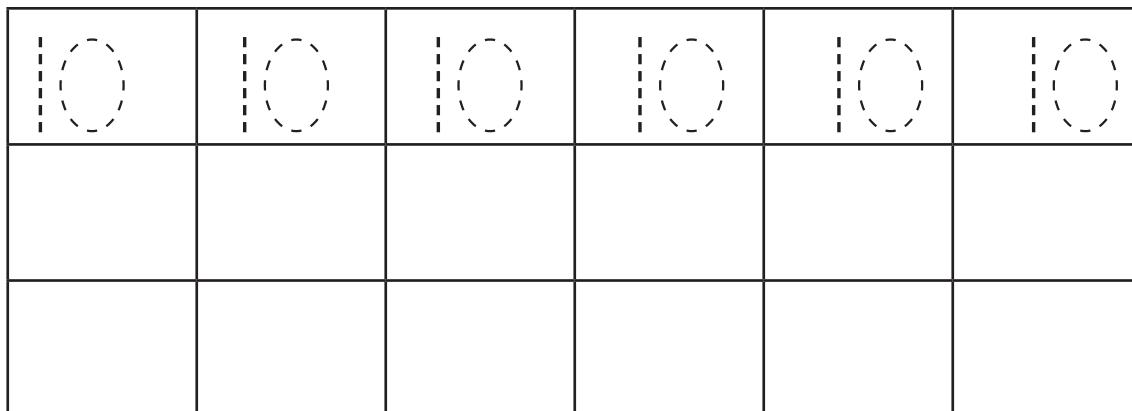
Try other possible ways of grouping in tens with easily available items such as match sticks, seeds, unused buttons and pebbles etc.,



## Practice

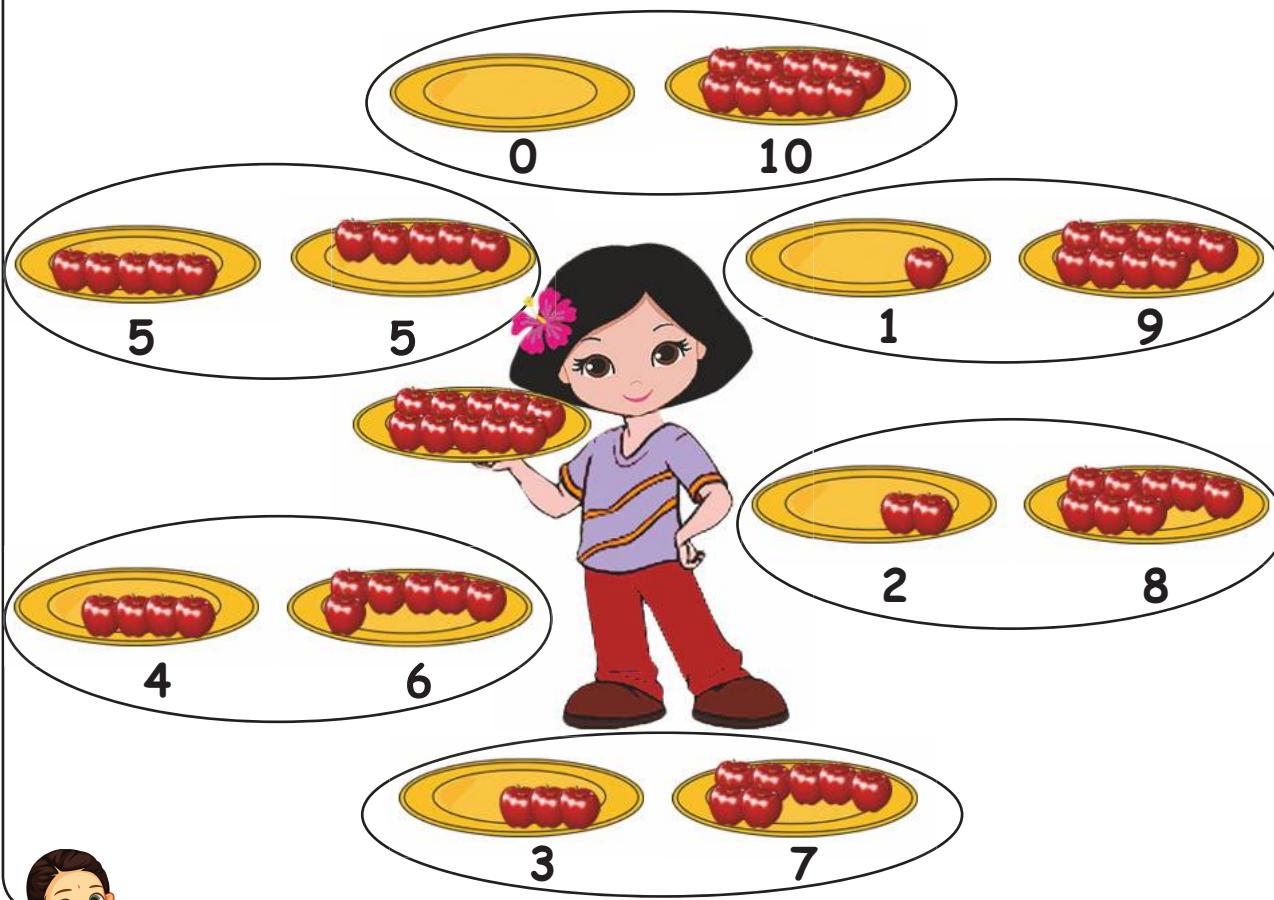


Trace and write number 10.



## Know more

10 in many ways.



## Think like a Mathematician



Are there any other possible ways of making 10 ? Say them.



## 2.2 Numbers from 10 to 20

### Travel through



Number train, join for fun.

Chikku bukku chikku bukku  
Number Train, Join for Fun.

Thadak thadak thadak thadak  
Carriage 10, come and join.

Badak badak badak badak  
Carriage 11, come and join.

Tudum dudum tudum dudum  
Carriage 12, come and join.

Kooo kooo kooo kooo  
Carriage 13, come and join.

Chikku bukku chikku bukku  
Carriage 14, come and join.

Thadak thadak thadak thadak  
Carriage 15, come and join.

Badak badak badak badak  
Carriage 16, come and join.

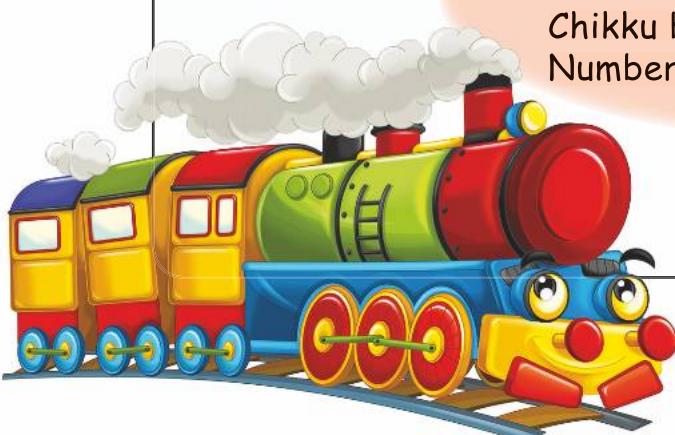
Tudum dudum tudum dudum  
Carriage 17, come and join.

Kooo kooo kooo kooo  
Carriage 18, come and join.

Thadak thadak badak badak  
Carriage 19, come and join.

Tudum dudum tudum dudum  
Carriage 20, come and join.

Chikku bukku chikku bukku  
Number Train, Join for Fun.





## Learn



Numbers from 1 to 20.

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

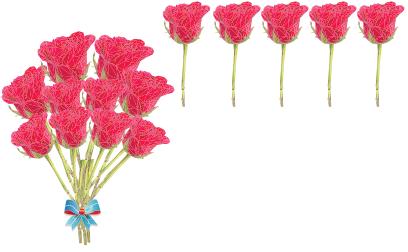
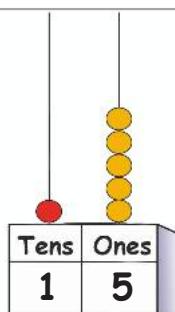
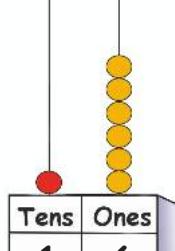
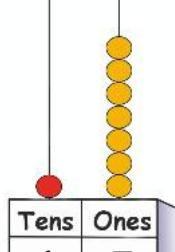
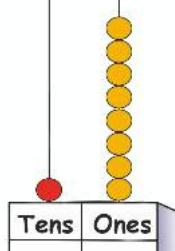
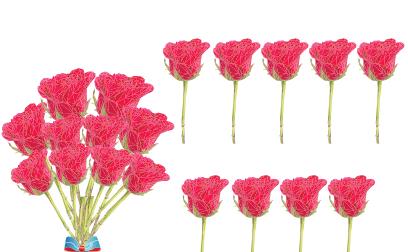
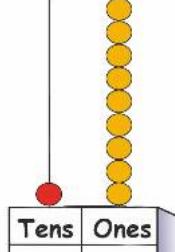
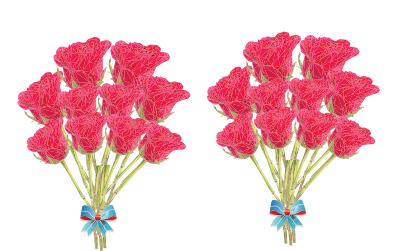
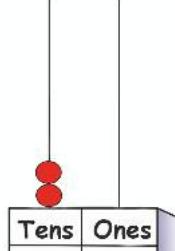


## Learn



Numbers from 10 to 20.




	 Tens    Ones <table border="1"><tr><td>1</td><td>5</td></tr></table>	1	5	
1	5			
	 Tens    Ones <table border="1"><tr><td>1</td><td>6</td></tr></table>	1	6	
1	6			
	 Tens    Ones <table border="1"><tr><td>1</td><td>7</td></tr></table>	1	7	
1	7			
	 Tens    Ones <table border="1"><tr><td>1</td><td>8</td></tr></table>	1	8	
1	8			
	 Tens    Ones <table border="1"><tr><td>1</td><td>9</td></tr></table>	1	9	
1	9			
	 Tens    Ones <table border="1"><tr><td>2</td><td>0</td></tr></table>	2	0	
2	0			



## Practice



Write the numbers.

11	12	13	14	15	16	17	18	19	20
11	12	13	14	15	16	17	18	19	20

Group ten objects. Write tens and ones.



<table border="1"><tr><th>Tens</th><th>Ones</th></tr><tr><td>1</td><td>1</td></tr></table>	Tens	Ones	1	1	<table border="1"><tr><th>Tens</th><th>Ones</th></tr><tr><td></td><td></td></tr></table>	Tens	Ones		
Tens	Ones								
1	1								
Tens	Ones								
<table border="1"><tr><th>Tens</th><th>Ones</th></tr><tr><td></td><td></td></tr></table>	Tens	Ones			<table border="1"><tr><th>Tens</th><th>Ones</th></tr><tr><td></td><td></td></tr></table>	Tens	Ones		
Tens	Ones								
Tens	Ones								

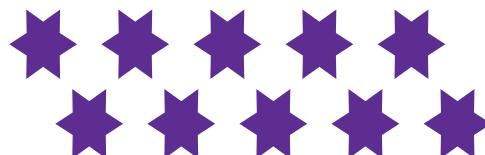


## Pleasure time

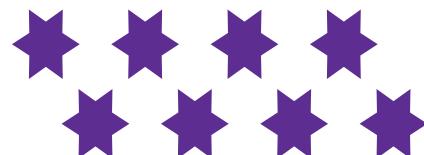


Draw the objects, for the given tens and ones.  
Write the number. One is done for you.

### 1. Draw stars



1 Ten



8 Ones

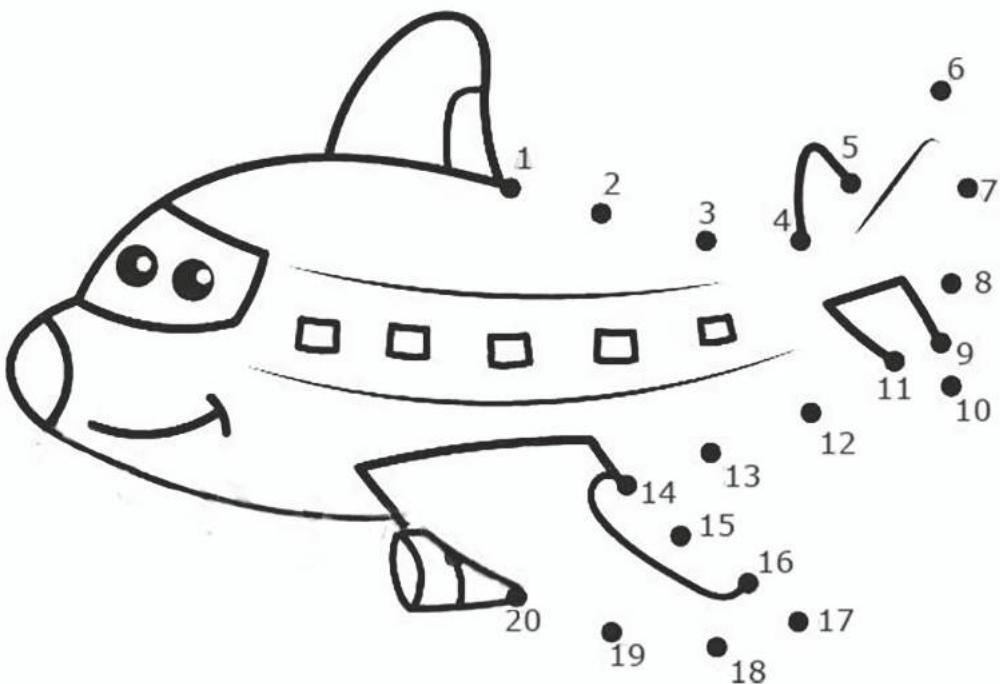
18

### 2. Draw eggs

1 Ten

2 Ones

Join the numbers in order, complete the picture and colour it.





## Learn

### Number Line

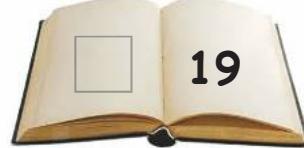
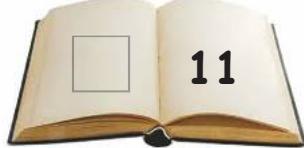
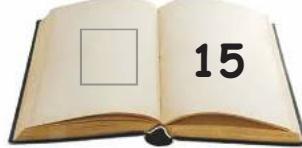
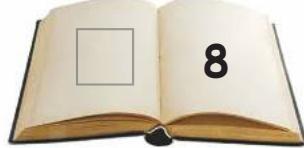
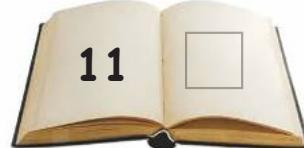
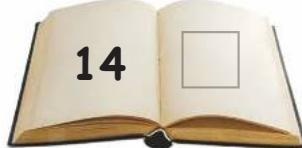


## Teacher's Note

Teacher can use the Number line to enhance the concepts of Before number, After number and Between number.

## Practice

### What comes after?



### What comes before?





## Practice



### Comparing the numbers

Count and write the number in the box.  
Tick (✓) the group with **more** animals.



Count and write the number in the box.  
Tick (✓) the group with **less** objects.



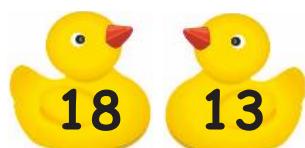
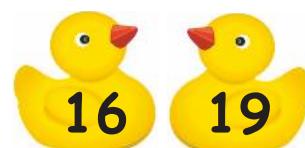
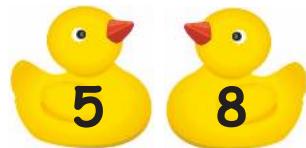


## Practice



Bigger number and Smaller number

Circle the **bigger** number in each pair of birds.



Circle the **smaller** number in each pair of birds.



## Try this



Shade the boxes for the given number.

Circle the **bigger** number.

11

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

7

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

5

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

9

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

10

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

14

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

17

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

15

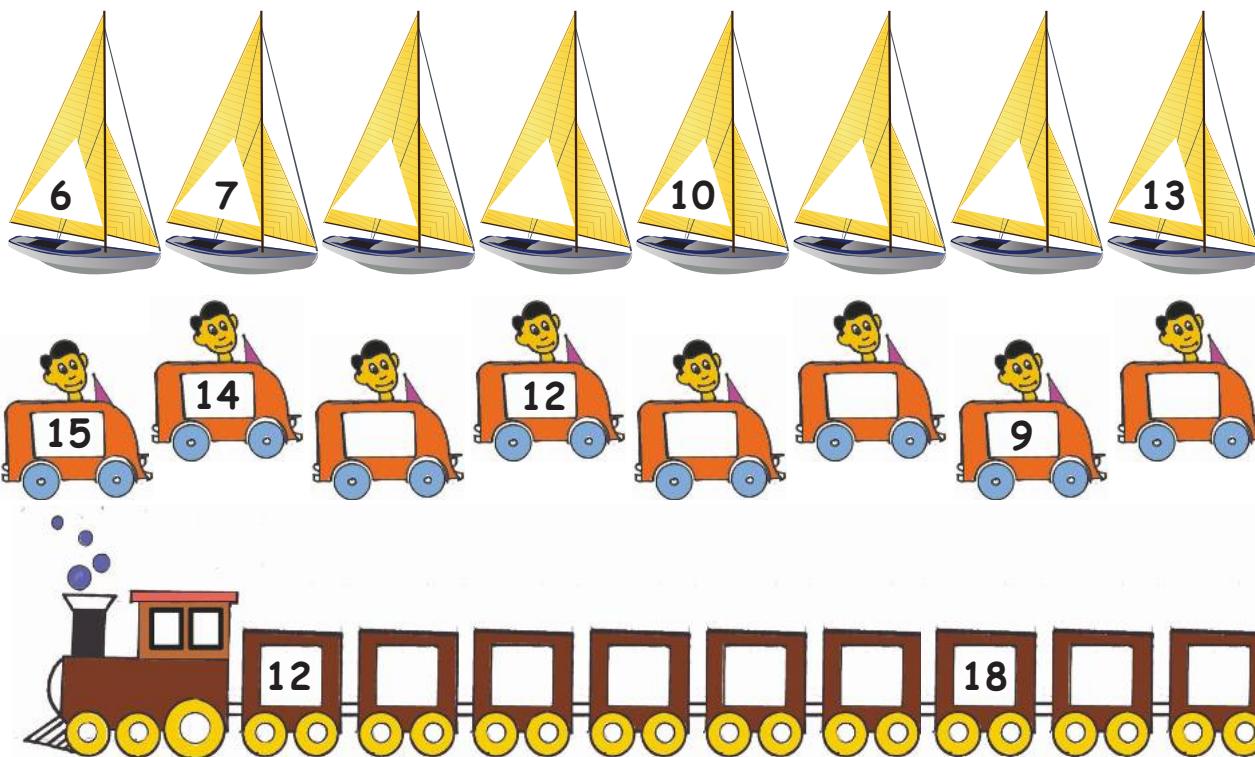
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



## Pleasure time



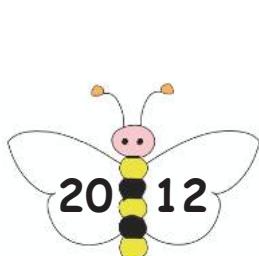
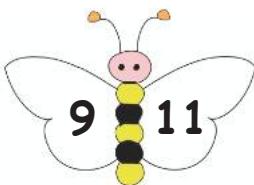
Write the missing numbers in the sequence.



Write the missing numbers.



Colour the wings of each butterfly such that **bigger** number is ■ and **smaller** number is ■.

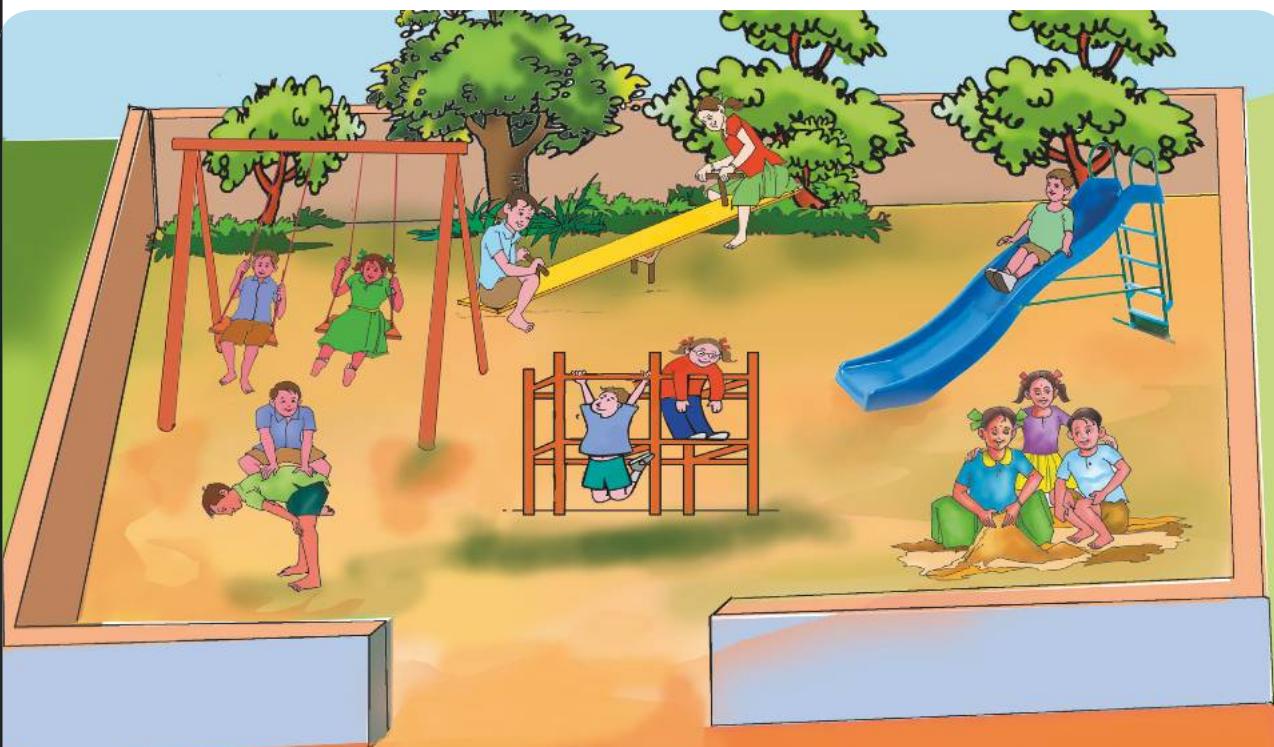




## 2.3 Addition (Not exceeding 20)

### Recall

### Addition upto 9



Number of children playing on the see-saw = \_\_\_\_\_

Number of children playing slide = \_\_\_\_\_

Total = \_\_\_\_\_

### Teacher's Note

Teacher may ask more addition related questions based on the picture given above to recall the addition of numbers upto 9.

### Add

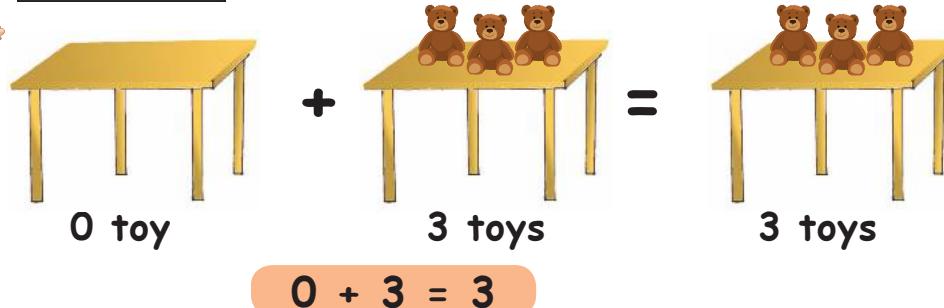
$$\begin{array}{r} 5 \\ + 1 \end{array}$$



## Learn



### Addition with zero



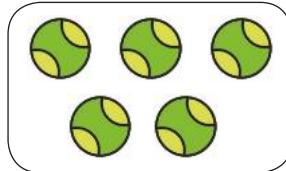
## Know more



Zero added with any number gives the same number.

## Practice

### Draw and add



+

=

0

$1 + 0 = \boxed{\phantom{0}}$

$4 + 0 = \boxed{4}$

$0 + 2 = \boxed{2}$

$5 + 0 = \boxed{\phantom{0}}$

$0 + 3 = \boxed{\phantom{0}}$

$0 + 6 = \boxed{\phantom{0}}$

$7 + 0 = \boxed{\phantom{0}}$

$0 + 8 = \boxed{\phantom{0}}$

$9 + 0 = \boxed{\phantom{0}}$

$\boxed{\phantom{0}}$

$\boxed{\phantom{0}}$

$\boxed{\phantom{0}}$

## Game



Teacher may arrange the paper cups on the table as shown in the picture. Give two chances for each student to hit the arranged cups from a particular distance using a ball. Note the number of cups hit by him/her in each chance. Finally ask them to count the total cups hit by them.

Number of cups hit on the first chance

=

Number of cups hit on the Second chance

=

Number of cups hit in both the chances together

=





## Travel through

Trees! How many trees?



Keywords  
Add, Total, Together,  
Altogether, More



Mani and Kani are neighbours. They go to school together from their homes. One day on the way to school, Mani started counting the trees on his right side and said the total as 7. Kani also counted the trees on her left side and said the total as 5. When they reached the school, they told their friend Selvi about this.

Selvi told the number of trees that had been counted by Mani and Kani is 12. Kani and Mani were surprised and asked "How did you say that?"

### Selvi's way of counting

Trees counted by Mani is      7      ||||| (Draw 7 lines)

Trees counted by Kani is      5      |||| (Now draw 5 lines)

Total number of trees  
counted by both of them      12        
                                          || (Total number of lines grouped in 10)



## Learn

### Addition



#### Using lines

$$6 + 9 = ?$$

$$\begin{array}{r} 6 \\ + 9 \\ \hline 15 \end{array}$$

#### Using beads

$$12 + 4 = ?$$

$$\begin{array}{r} 12 \\ + 4 \\ \hline 16 \end{array}$$

## Practice

### Add



$1$

$+ 9$

$8$

$+ 5$

$15$

$+ 0$

$7$

$+ 7$

$12$

$+ 4$

$19$

$+ 0$

$14$

$+ 3$

$11$

$+ 7$

$6 + 7 = \boxed{\phantom{00}}$

$3 + 9 = \boxed{\phantom{00}}$

$4 + 13 = \boxed{\phantom{00}}$

$11 + 0 = \boxed{\phantom{00}}$

$16 + 4 = \boxed{\phantom{00}}$

$17 + 1 = \boxed{\phantom{00}}$



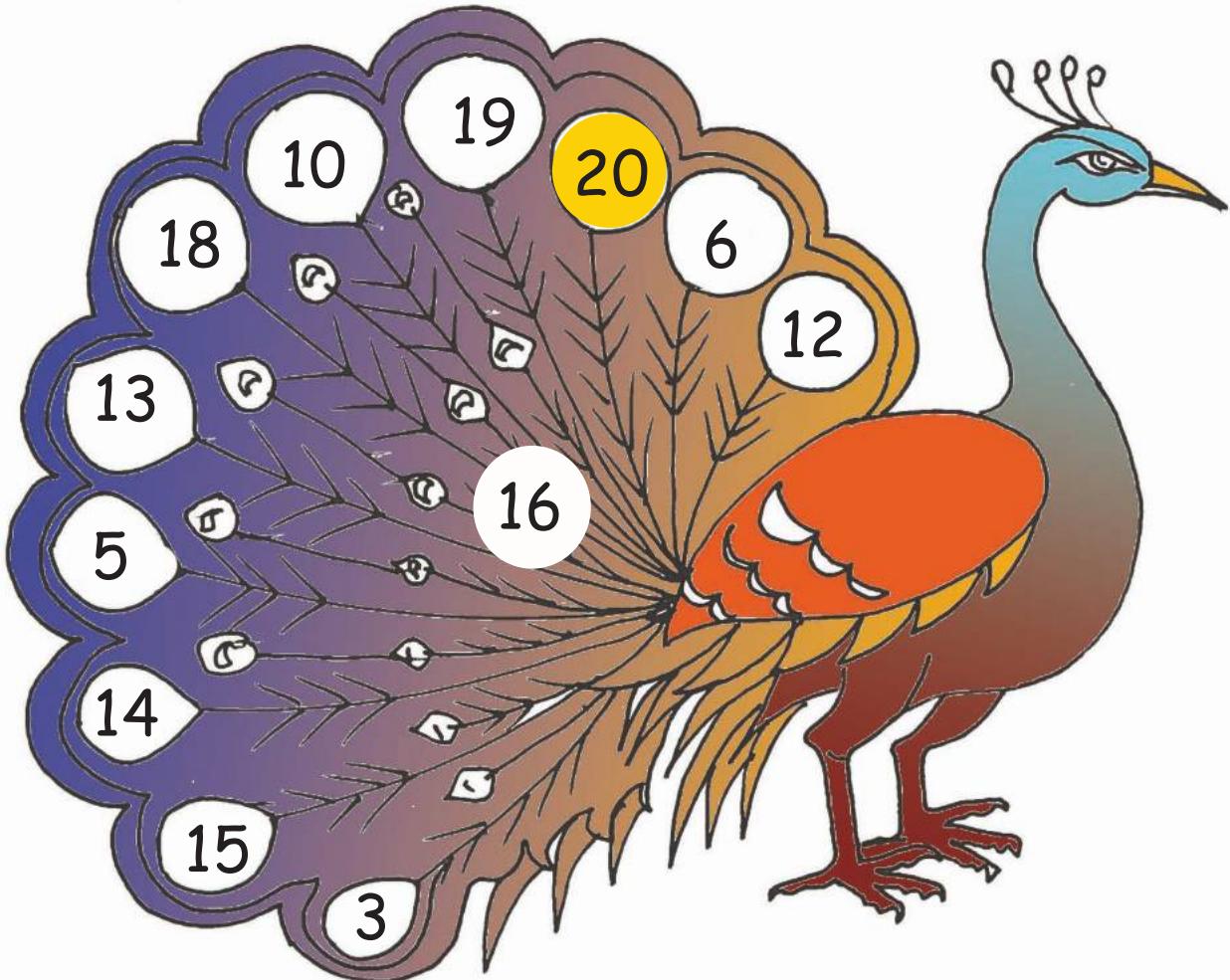
## Pleasure time



Find the total of the two numbers given in the table. Colour the peacock with the colours indicated against the total.

Add	Total	Colour
$2 + 1$		
$5 + 0$		
$3 + 3$		
$9 + 1$		
$6 + 6$		
$2 + 11$		

Add	Total	Colour
$9 + 5$		
$11 + 4$		
$10 + 6$		
$13 + 5$		
$16 + 3$		
$7 + 13$	20	





## Think like a Mathematician



Match the pairs which make the sum 12?

6    5    11    3    10    4    12

1    6    2    0    8    9    7

Match the pairs which make the sum 20?

4    2    17    5    19    7    14

16    1    18    3    6    15    13

## Mental math

### Addition



- Arasi has 9 pencils, Kamala has 8 pencils. How many pencils do they have **altogether**?
- Mary plucked 7 mangoes, Agalya plucked 6 mangoes. They put the mangoes **together** in a basket. How many mangoes are there in the basket now?
- Chezhiyan is 12 years old. His sister age is 3 years **more** than him. How old is Chezhiyan's sister?
- Samirah has 8 crayons. She buys 4 more crayons. How many crayons does Samirah have **totally**?



# Unit 3 Patterns

## 3.1 Patterns in shapes

Keywords  
Body movements,  
Patterns

Travel through



Teacher encourages the children to observe the picture and ask some questions as given below.

1. Name the shapes that you could see in this picture.
2. Where and how these shapes are arranged?

Learn



Observe the patterns in shapes. Complete it.

■	■	■	■	■	■							
●	▲	●	▲	●	▲							
↓	↑	↓	↑	↓	↑							
■	●	◆	■	●	◆							



## Activity

Decorate your class.



- Prepare similar shapes as given.  

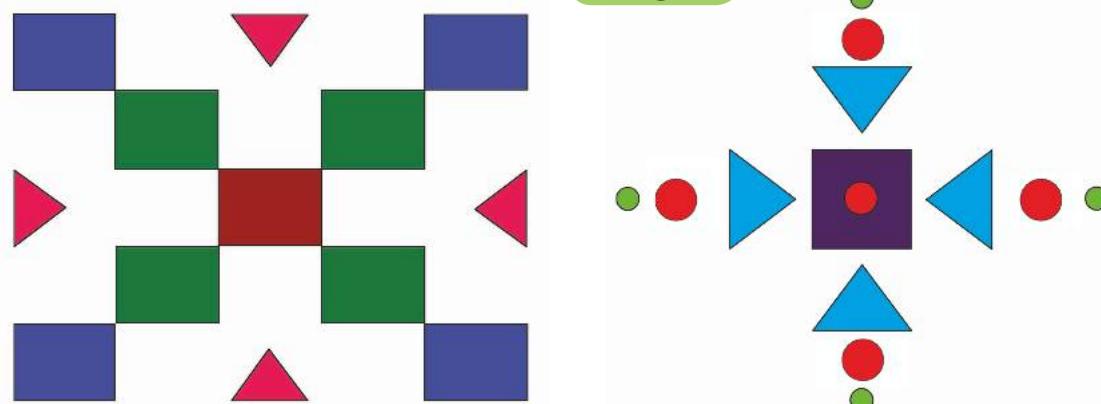
- Cut out a long strip in a chart as shown below.  

- Make your own pattern by using the prepared shapes and strips.  


Use it to decorate your classroom with the help of the teacher.

## Know more

Rangoli



Draw shapes in different pattern to make your own Rangoli.

## Pleasure time

Match the similar pattern.





## 3.2 Patterns in body movements

Travel through

Body movements



Ma ma maah...  
I can run; I can run



La la laah...  
I can jump; I can jump



Oh oh oh...  
I can swim; I can swim

Pa pa paah...  
I can swing; I can swing

Hey hey hey...  
I can do; I can do

Learn

Observe the patterns in body movements.

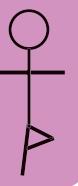
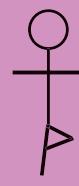
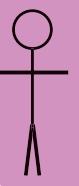
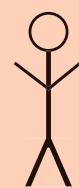




## Practice



Complete the patterns.



## Game



### Procedure:

- ❖ Ask the students to stand in a circle.
- ❖ If the teacher says '**small pot**', students keep their hands **close** to each other.
- ❖ When the teacher says '**big pot**', students keep their hands **wide**.
- ❖ One who does wrongly has to go out of the game.
- ❖ The student who stands till the end is the winner.

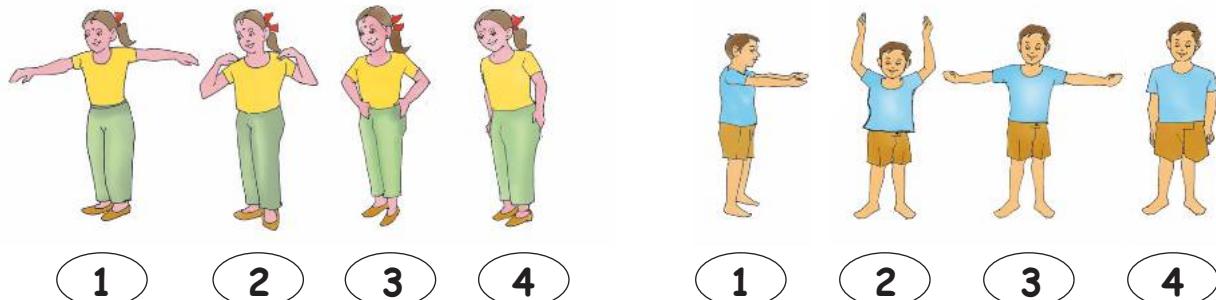




## Try this



Do these exercises. Enjoy the pattern in it.  
Make your own pattern.



### Teacher's Note

Teacher makes the students to stand in a line with one arm distance. Then makes them to do the exercises. When teacher says the counting, students do the actions as given above. Let the children observe the patterns in their movements.

## 3.3 Patterns in numbers

### Learn



Observe the numbers given below.



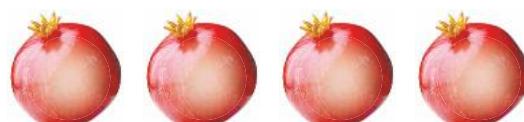
Write the numbers based on your observation.



Now, write the numbers in the Guavas in order as given above.



Write the numbers in the Pomegranates in order as given above.



Observe the above numbers. Is there any pattern in it?  
Say what is that?



## Practice



Complete the number patterns.

1	2			5			8	
1		5	7					
2	4							
5	4						1	



34Z4R5

## Pleasure time



Complete the number patterns.

1 2

4 8

8 6 3





# Unit 4 Measurements

## 4.1 Comparisons

### Keywords

Long - Short, Thick - Thin  
Tall - Short, Heavy - Light  
More - Less

### Travel through

Observe the picture.



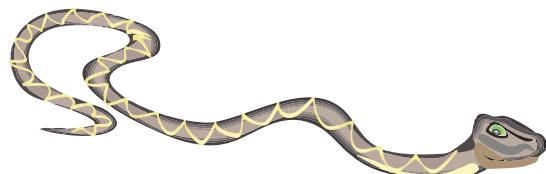
### Teacher's Note

Teacher explains the picture for introducing the above keywords.



## Learn

Long - Short



Long



Short



## Practice



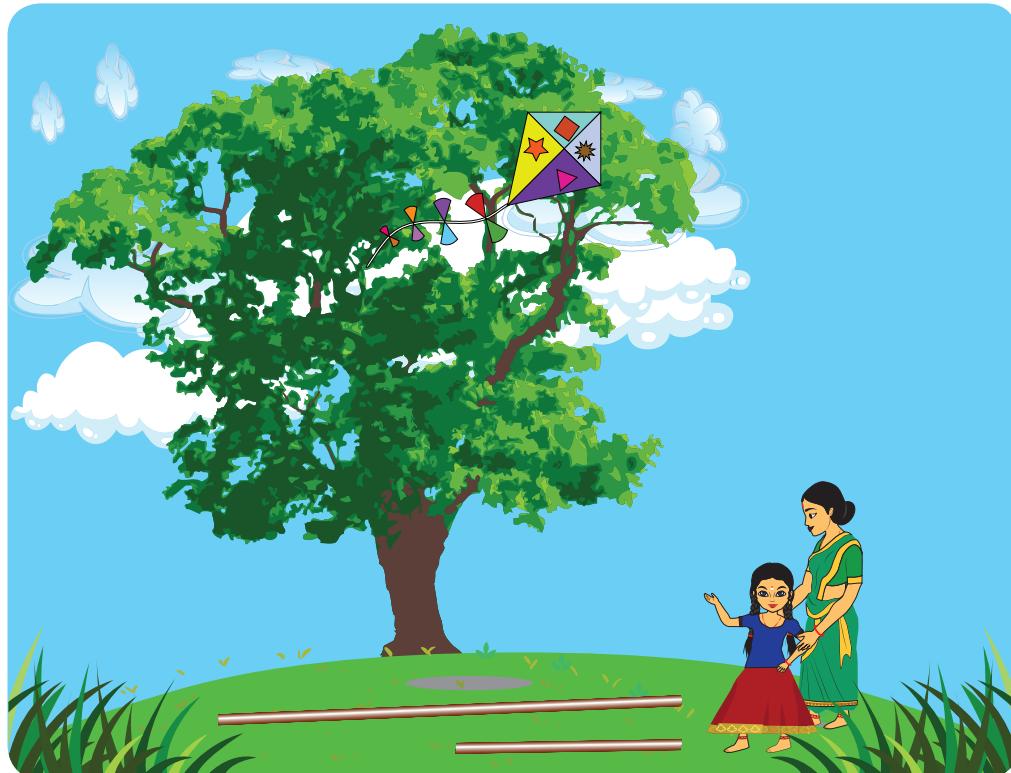
Colour the Longer one with and the Shorter one with



## Think like a Mathematician



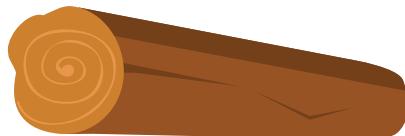
Which stick will the mother use to get back the kite ? Why?



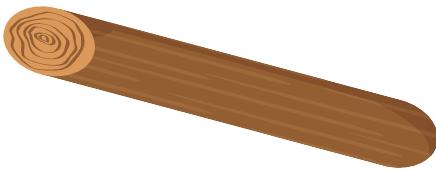


## Learn

Thick - Thin



Thick

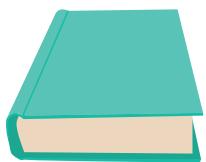


Thin



## Practice

Tick (✓) the thicker book.

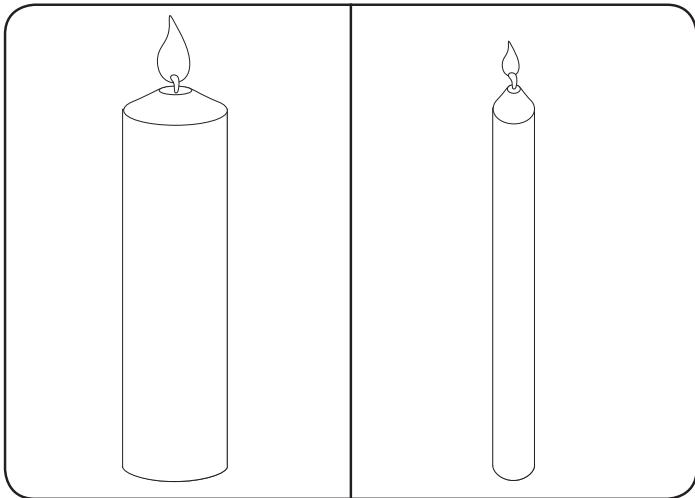
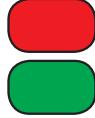


Tick (✓) the thinner tyre.



## Try this

Colour the **thicker** candle with  
and the **thinner** candle with

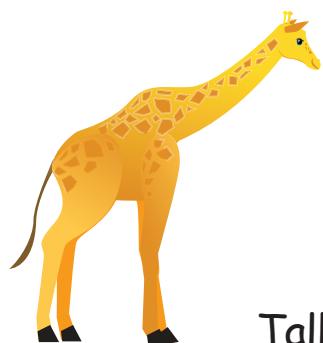


Which candle will burn  
for a long time? Why?



## Learn

Tall - Short



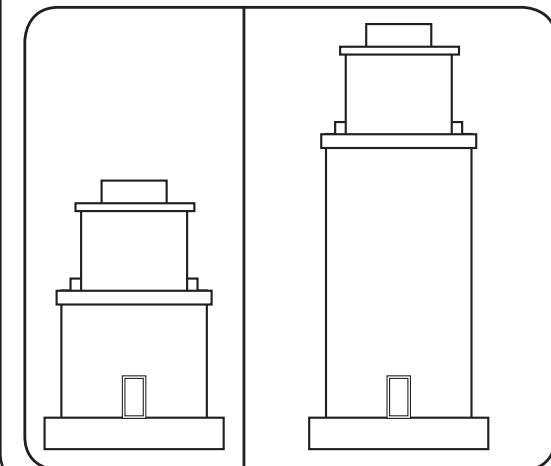
Tall



Short

## Practice

Colour the **taller** building with and the **shorter** building with



Which building will consume more colour? Why?

## Think like a Mathematician



Which ladder will he use to pick the **red coloured book**? Why?

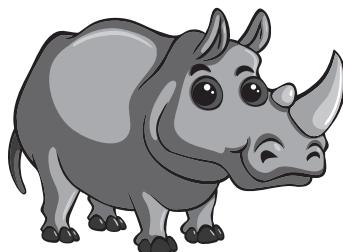




## Learn



Heavy - Light



Heavy

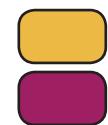


Light

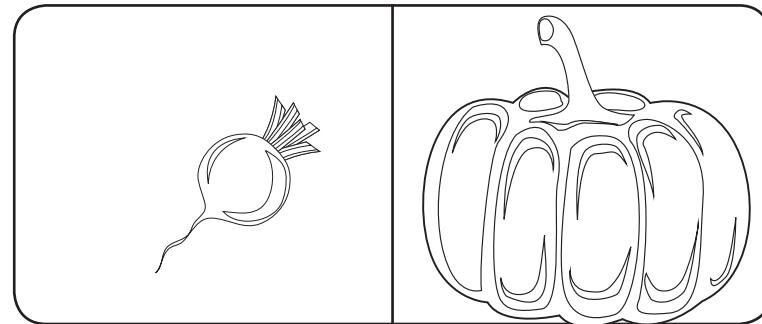
## Practice



Colour the **heavier** one with  
and the **lighter** one with



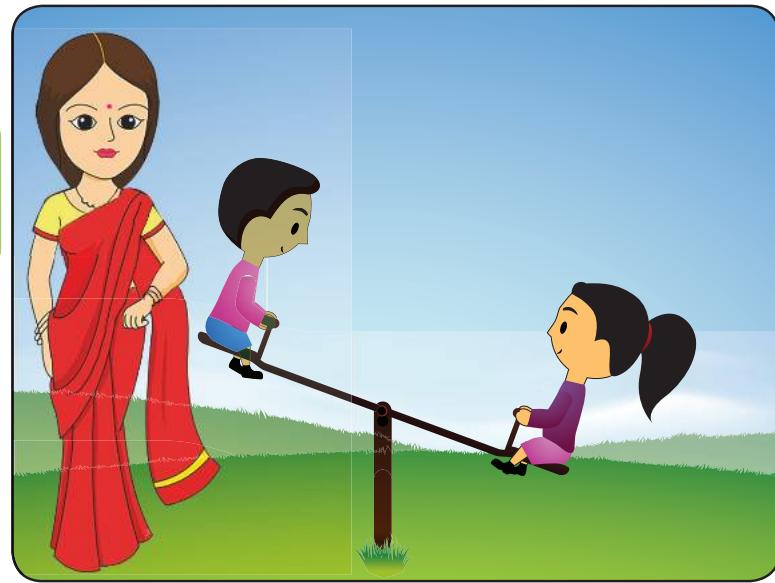
Can you suggest  
a pair of fruits for  
this concept?



## Think like a Mathematician



If the mother sits in the  
place of the boy, what  
will happen? Why?





## Learn

### More - Less



More



Less

## Practice



Tick (✓) the bottle that contains **less** water.



Tick (✓) the container that can hold **more** water.



## Think like a Mathematician



Is it a right vessel to pour the full packet of milk? Why?



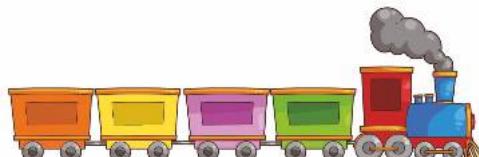
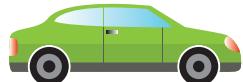


## Learn

### Ordering



Tick (✓) the longest vehicle.

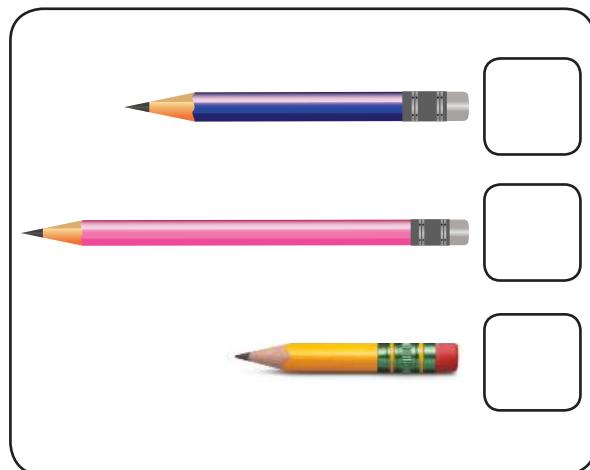


Tick (✓) the heaviest vegetable.

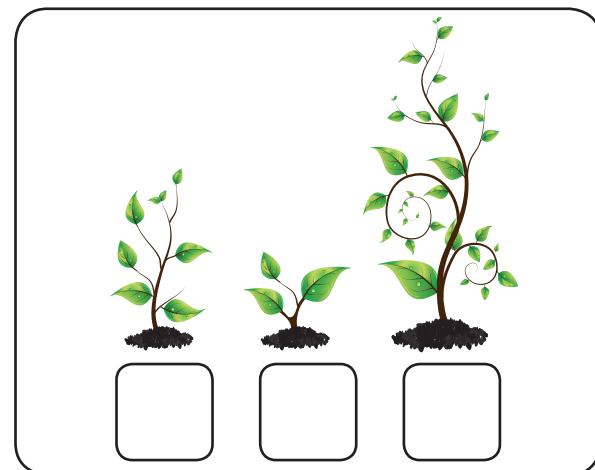


## Practice

Tick (✓) the shortest.



Tick (✓) the tallest.



### Teacher's Note

Teacher can help students to develop the idea of ordering objects based on length, mass and height.



## 4.2 Measures



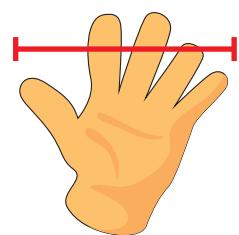
### Keywords

Hand span, Cubit,  
Foot span, Pace,  
Length

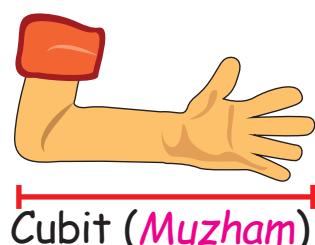
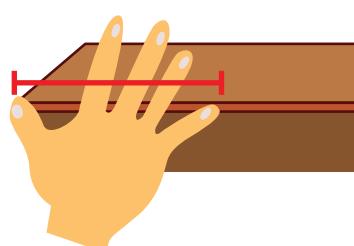
### Travel through



### Learn



Handspan (*Saan*)

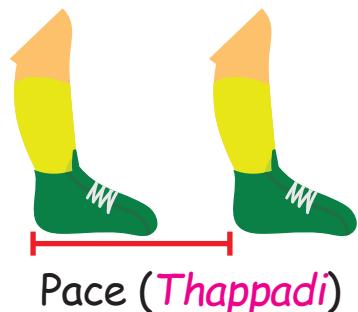
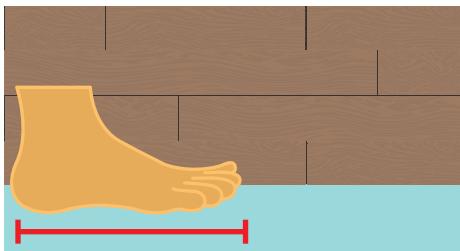


Cubit (*Muzham*)





## Learn



## Activity

Fill the table and compare



Object	Unit of Measure	Number of units in measuring the length by		
		Teacher	Me	My friend
Window	Hand span			
Table	Cubit			
Mat	Foot span			
Classroom	Pace			

## Think like a Mathematician

Why do the lengths measured differ from one another?





## Primary Mathematics - Class I (Term 2)

### List of Authors and Reviewers

#### Reviewers

**Dr.R.Ramanujam**

Professor,  
Institute of Mathematical Sciences,  
Taramani,Chennai.

**Dr.Anitha Rampal**

Professor, Central Institute of Education,  
University of Delhi.

**K.Krithika**

Research Center, Azim premji foundation,  
Bengaluru.

#### Academic Co-ordinators

**B.Tamilselvi**

Deputy Director,  
SCERT, Chennai.

**Dr. P. Ramalingam**

Principal,  
DIET,  
Kilpennathur, Thiruvannamalai Dist.

#### Art and design

##### Illustration

**R.Arivuselvan**

Drawing Teacher, GHSS, Udhayana tham,  
Ariyalur District.

**N.Rengabashiyam**

Drawing Teacher, Natarajan Dhamayanthy  
High School, Velipalayam, Nagapattinam District.

**N.Gopalakrishnan,**

Drawing Teacher, Kumararaja muthiah HSS,  
Gandhi nagar, Adyar, Chennai.

##### Graphics & Layout

V2 innovations, Gopalapuram, Chennai.

##### Quality Control

**S. Gopu**

**M. Karan**

**Manohar Radhakrishnan**

##### Wrapper Design

**Kathir Arumugam**

##### Coordination

**Ramesh Munisamy**

##### QR Code Team

**R. Jaganathan**, PUMS, Ganesapuram- Polur,

**N. Jagan**, GBHSS, Uthiramerur, Kancheepuram.

**J.F.Paul Edwin Roy**, PUMS, Rakkipatti, Salem.

#### Domain Experts

**Dr.G.Palani**

Senior Lecturer,  
DIET, Vadalur, Cuddalore District.

**D.Kasi**

Lecturer,  
DIET, Palayampatti, Virudunagar District.

#### Coordinators

**M.K. Lalitha**

B.T Asst, SCERT, Chennai.

**N.V.Poornima devi**

B.T Asst, SCERT, Chennai.

#### Content Readers

**Dr. M.P. Jeyaraman,**

Asst, Professor, Dept of Maths,  
L.N. Govt Collage, Ponneri.

**Dr. K. Kavitha,**

Asst, Professor, Dept of Maths,  
Bharathi Women's Collage, Chennai.

#### Authors

**S.Subramanian**

BT Asst, PUMS, Udayalipatti,  
Kundrandarkovil Union, Pudukkottai District.

**P.Prasanna**

SGT, PUMS, Vettukattuvalasu,  
Modakkurichi Union, Erode District.

**R.Vijayakumar**

SGT, PUPS, Naranikuppam, Veppanapalli Union,  
Krishnagiri District.

**N.Kalaivani**

SGT, PUMS, Thiruvanthavar, Uthiramerur Union ,  
Kanchipuram District.

**S.Balambal**

PGT, JG Hindu Vidyalaya MHSS, Chennai.

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