

© Government of Tamilnadu First Edition - 2012 Revised Edition - 2013 Reprint - 2015 ( Published under Uniform System of School Education Scheme in Trimester Pattern )

Textbook Prepared and Compiled By State Council of Educational Research and Training College Road, Chennai - 600 006.

**Textbook Printing** 

Tamil Nadu Textbook and Educational Services Corporation College Road, Chennai - 600 006.

This book has been printed on 80 G.S.M. Maplitho Paper

Price : Rs.

Printed by Web Offset at:

Textbook available at www.textbooksonline.tn.nic.in

# CONTENTS

# MATHEMATICS

#### 1 - 56

Lesson	Topic	Page
1.	PATTERNS IN SHAPES	1
2.	NUMBERS	10
3.	COMPARISON OF NUMBERS	21
4.	ADDITION	34
5.	MEASURES OF LENGTH	49

# ENVIRONMENTAL STUDIES 57 - 96

Lesson	Topic	Page
1.	TREE, HERB, CLIMBER	58
2.	LET US FLY!	71
3.	ANIMALS	78
4.	OUR BODY	90

# MATHEMATICS STANDARD TWO

SS

TERM I

# **1. PATTERNS IN SHAPES**

Shall we admire the beautiful designs in the wings of the butterfly, petals of sunflower and plumage of peacock?







1

Some more designs are given below



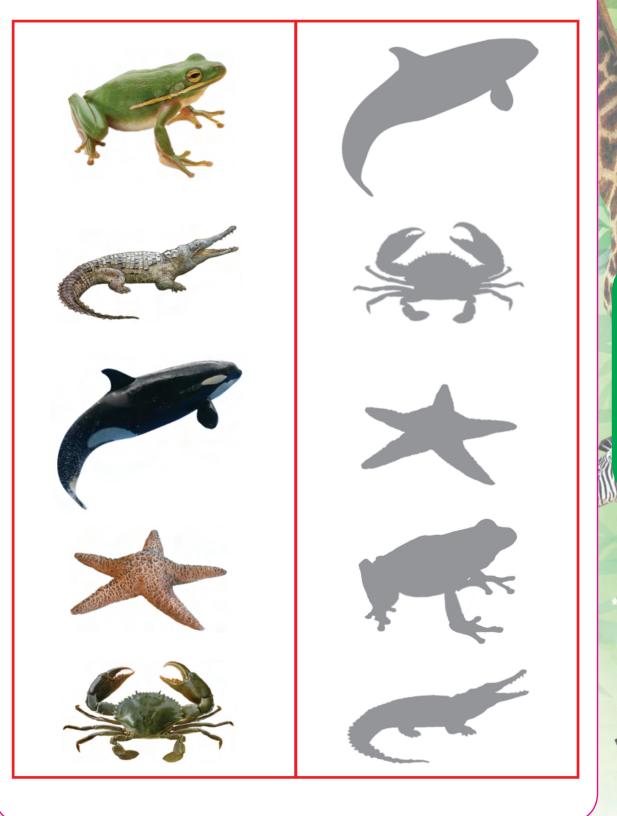
Patterns are arrangements of similar designs in a particular order.

## Match the group with its kind.

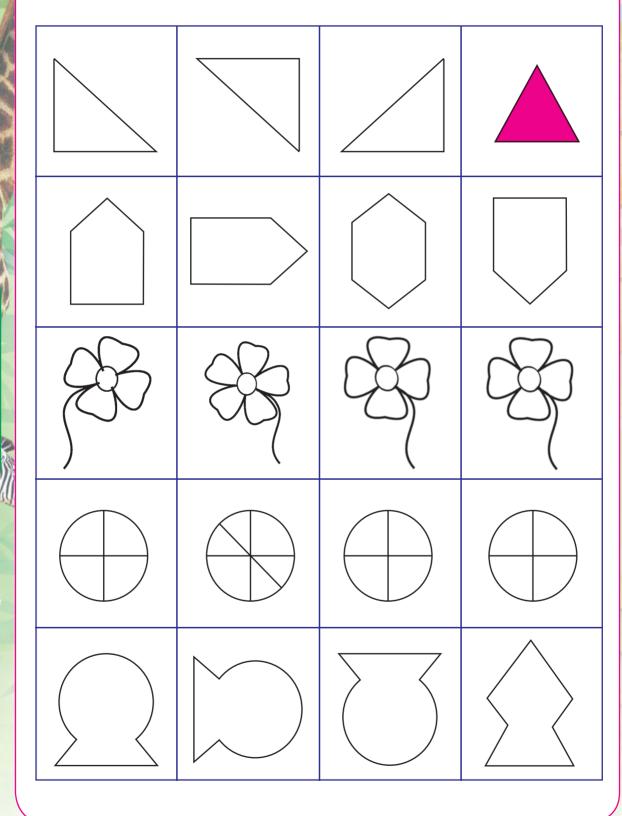
**ATHEMATICS** 



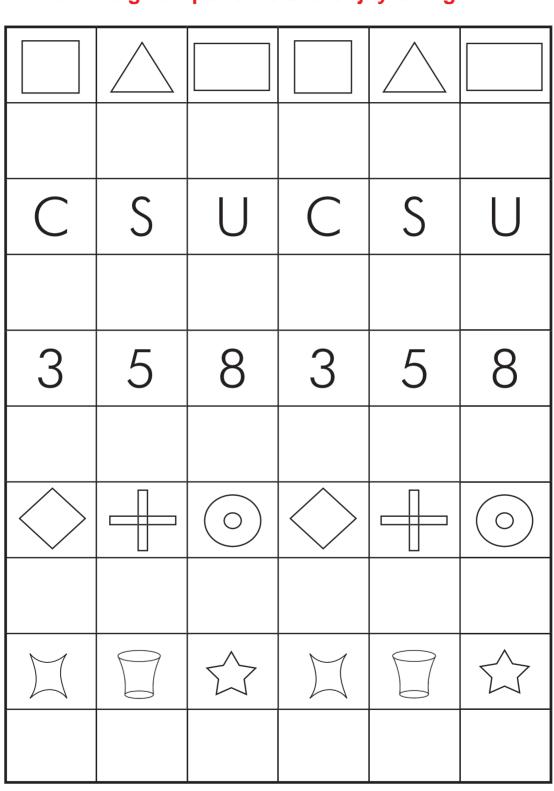
# Match the animal with its shadow by drawing a line.







MATHEMATICS

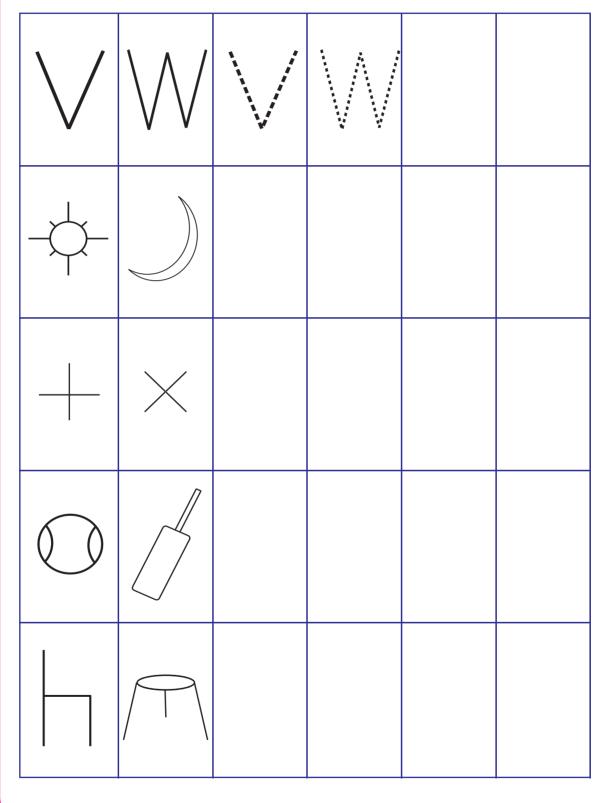


ų

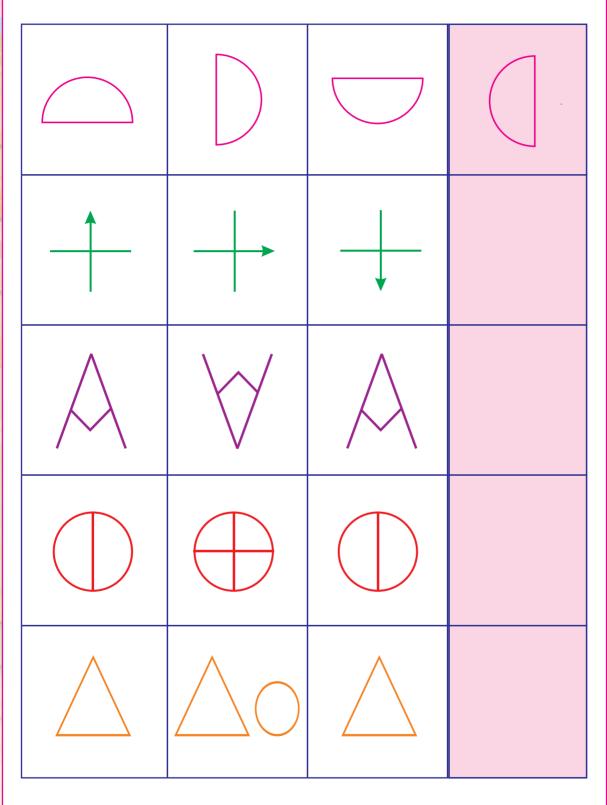
## Draw the given patterns and enjoy doing it.

# Repeat the patterns as given.

MATHEMATICS



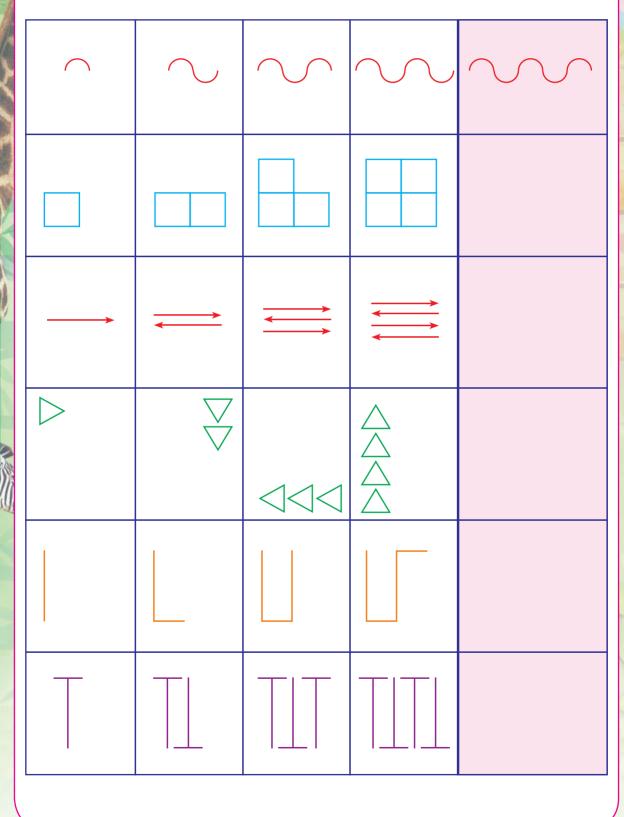
# Continue the pattern by drawing the next one.



THEMATI

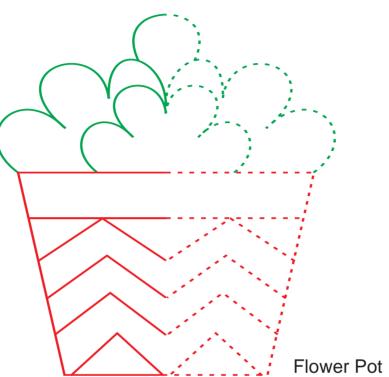
# Draw the next pattern.

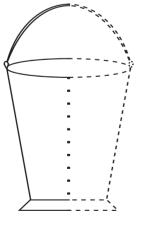
MATHEMATICS



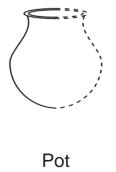


## Complete the other half of the pattern.









ų

Bat

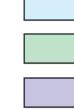
# 2. NUMBERS

#### Revision

MATHEMATICS

Write the following in numerals.

Seven	7	Thirteen
Nine		Fifteen
Eleven		Nineteen



★ Write the following in words.

8	Eight	14	
10		16	
12		18	

Circle the greatest number in the following.

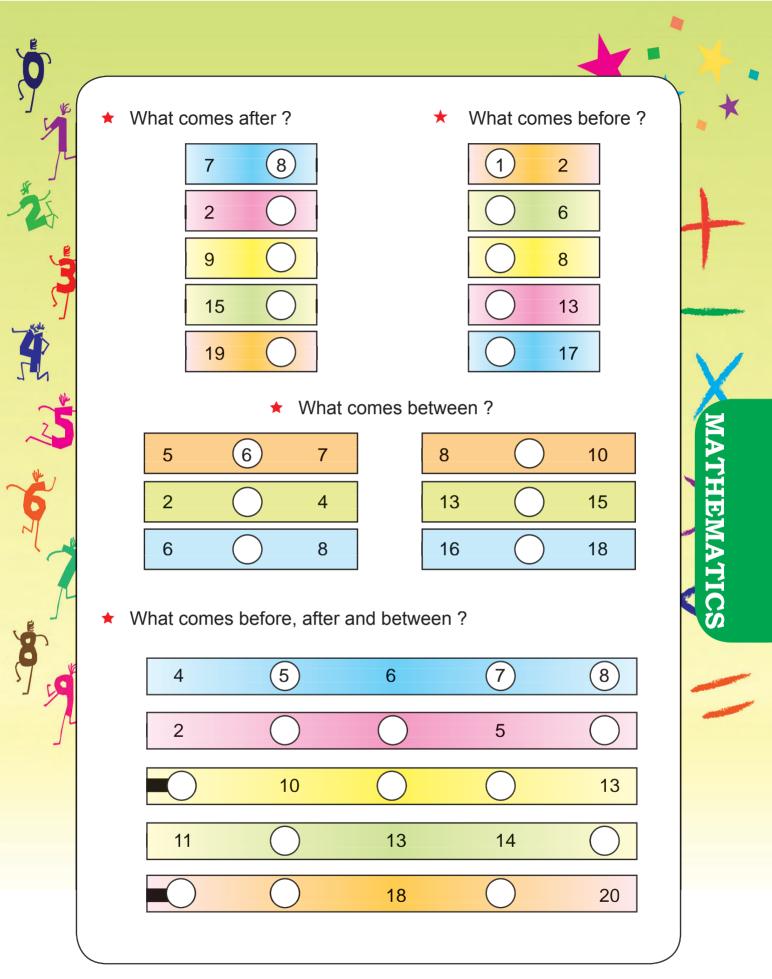
7	6	8
2	9	6
11	9	12

6	13	10
18	7	13
16	19	14

★ Circle the smallest number in the following.

4	3	2
7	6	8
10	12	14

13	11	9
15	13	17
16	18	19





#### Number names.

Let us learn to read and write the number names.

Pictorial form	Numerals	Number names
~0000000000 √0000000000 0 ~00000000000	21	Twenty-one
→000000000000000000000000000000000000	22	Twenty-two
→0000000000p 0 →000000000p 0 0	23	Twenty-three
	24	Twenty-four
	25	Twenty-five
	26	Twenty-six
	27	Twenty-seven
	28	Twenty-eight
	29	Twenty-nine
√0000000000 √0000000000 √0000000000000	30	Thirty

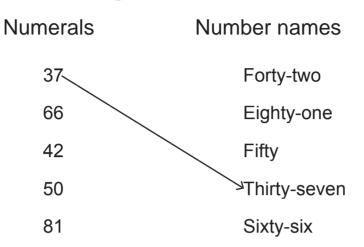
	Learn to read and write the number names in tens.			
	Pictorial form	Numerals	Number names	
	→ <b>(()))))</b>	10	Ten	
	-100000000000 -100000000000	20	Twenty	
	40000000000000000000000000000000000000	30	Thirty	
	40000000000000000000000000000000000000	40	Forty	
		50	Fifty	
		60	Sixty	
	40000000000000000000000000000000000000	70	Seventy	
		80	Eighty	
		90	Ninety	
	400000000000 4000000000000000000000000	100	Hundred	
<b>Te</b>	acher's Note		the students to tes from 1 to 100.	



## Count and write.

Pictorial fe	orm	Numerals	Number names
~000000000000000000000000000000000000		32	Thi <b>rty-two</b>
<ul> <li>⇒ <a href="https://www.communet.com"></a></li> <li>&gt; <a a="" href="https://www.com" www.com"="" www.com<=""></a></li> <li>&gt; <a href="https://www.com" td="" wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww<=""><th></th><td>46</td><td></td></a></li></ul>		46	
			Fifty-five
	0 900000 0 9000000 0 9000000	63	
		78	
	0 400000 0 4000000 0 4000000		Eighty-five
			Ninety-seven
	~000000 ~000000 ~000000 ~000000	100	

#### Match the following.



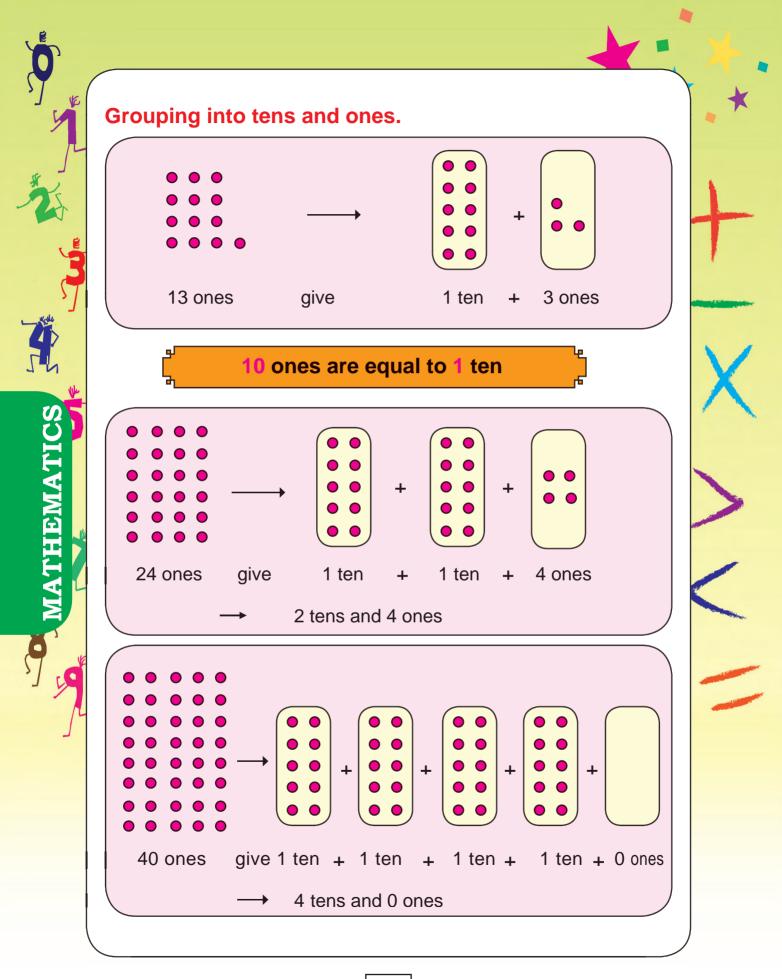
#### Write the numerals for the following.

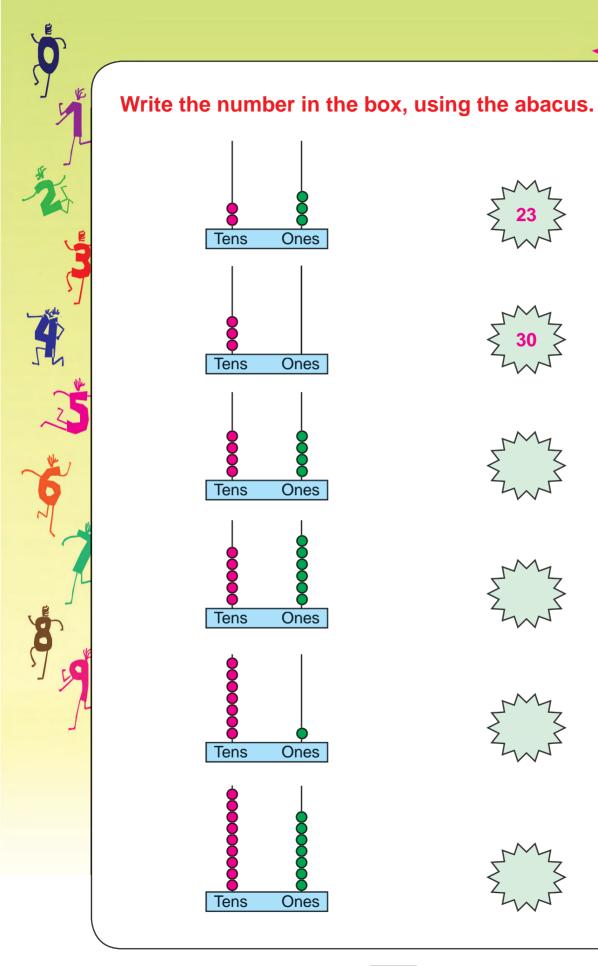
Sixty	
Seventy-seven	
Eighty-nine	
Ninety-five	
Hundred	



#### Write the number names for the following.

 69	
 76	
 80	
 93	
 99	
	76 80 93







## Read the numbers and draw the beads in the abacus.



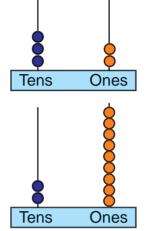


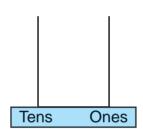


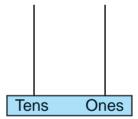


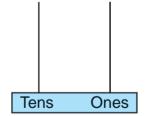


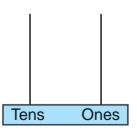






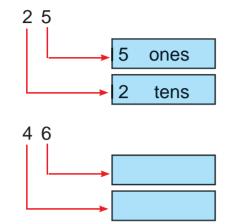


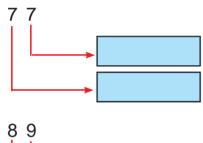


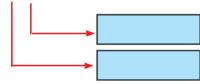




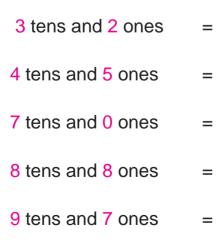
#### Write the place value of the digits in the following numbers.

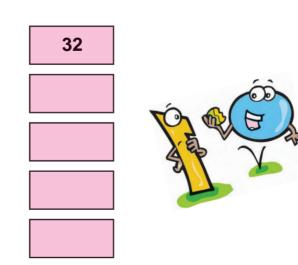


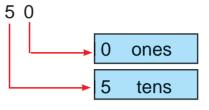


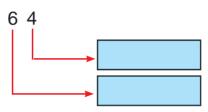


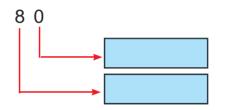
Write in the short form.

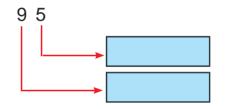












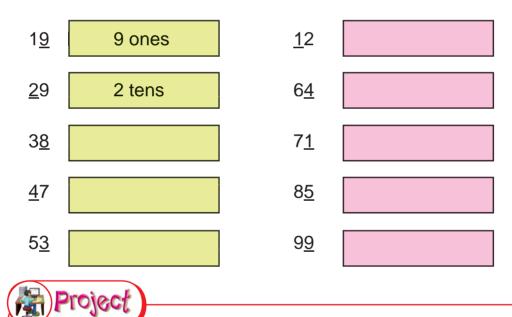


Write in the expanded form.

MATHEMATICS

28	=	2	tens	and	8	ones
41	=		tens	and		ones
72	=		tens	and		ones
83	=		tens	and		ones
90	=		tens	and		ones

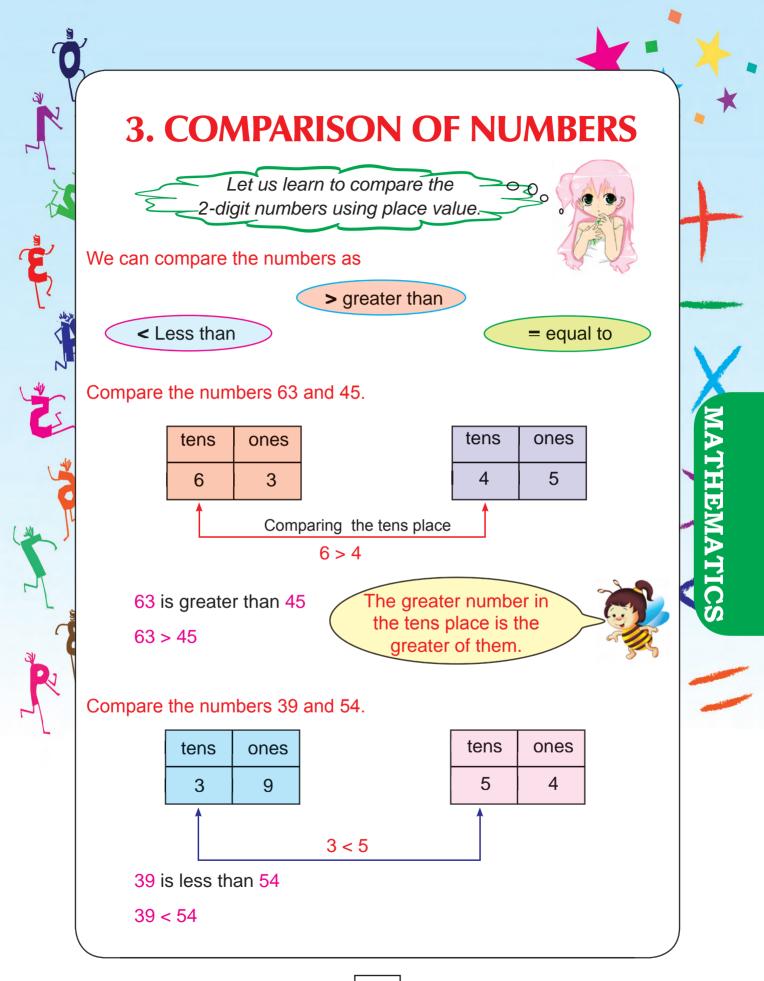
#### Write the place value of the underlined numbers.

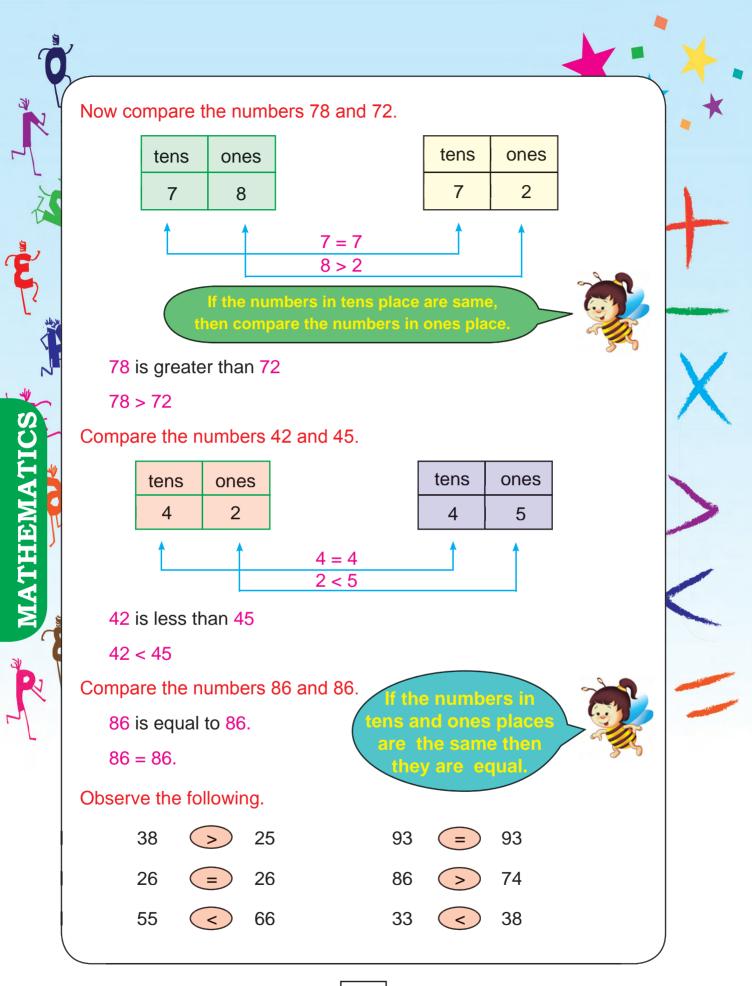


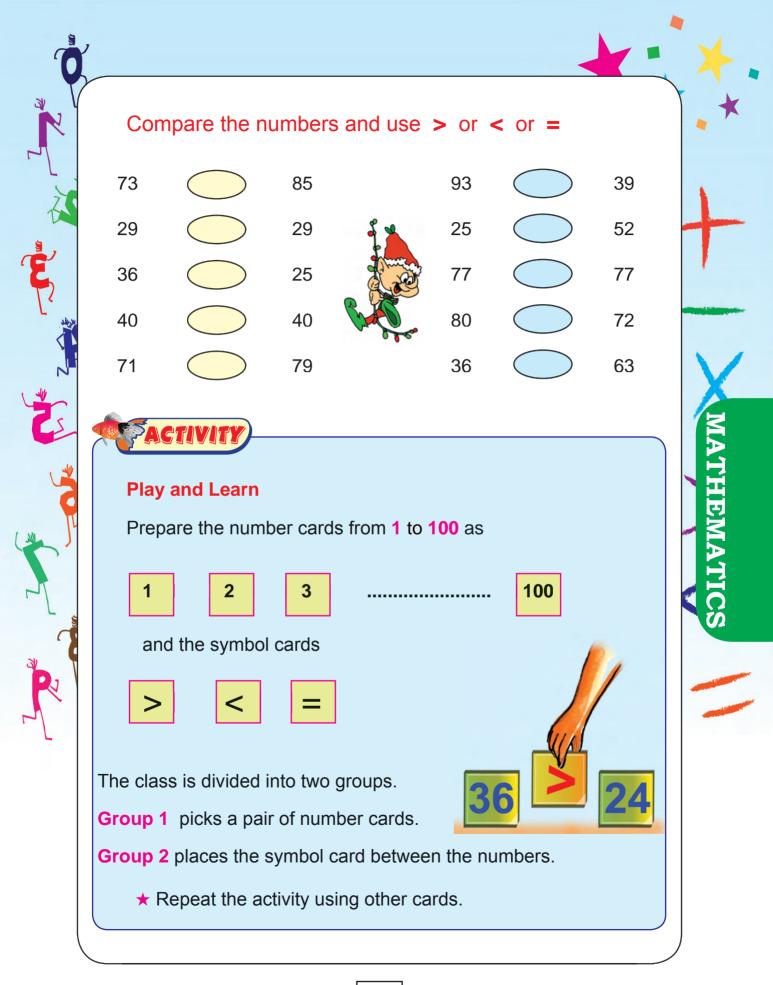
Prepare the number cards from 0 to 9. Take any two cards and make a 2 - digit number. Say the place value of the digits.

 $\star$  Repeat the activity using other cards.



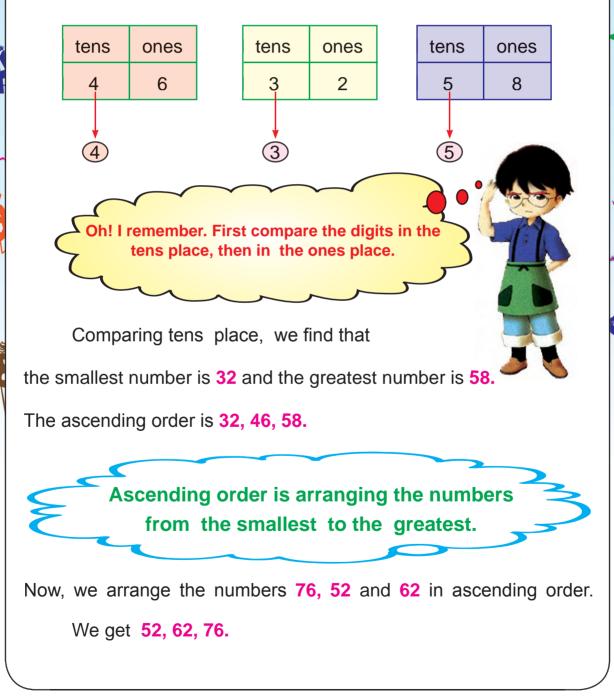






#### **Ascending Order**

We shall arrange the numbers **7**, **5** and **8** from the smallest to the greatest as **5**, **7**, **8**. Shall we arrange the numbers **46**, **32** and **58** from the smallest to the greatest ?



MATHEMATICS

#### **Descending Order**

Descending order is arranging the numbers from the greatest to the smallest.

Let us arrange the numbers **46**, **32** and **58** in descending order. We get **58**, **46**, **32**.

Arrange the following numbers in ascending order.

25

56, 37, 25	=	······ , ······ , ·····
93, 84, 81	=	, ,
27, 43, 38	=	, ,
75, 72, 74	=	
54, 63, 45	=	,,

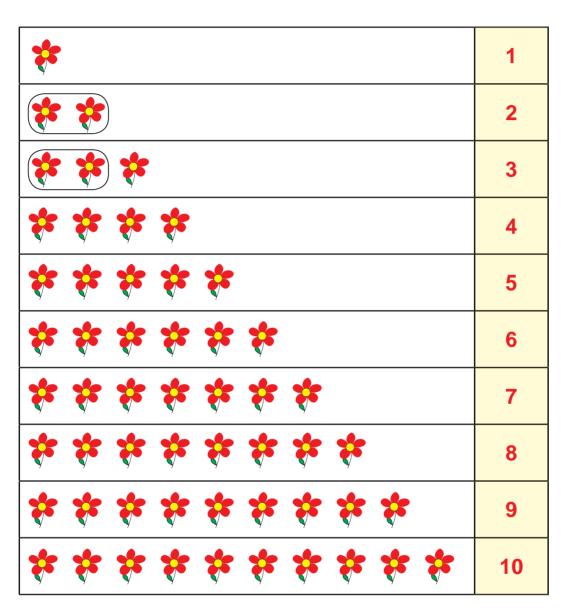
Arrange the following numbers in descending order.

27, 35, 53	=	ı ı
72,86, 85	=	,,
26, 62, 22	=	,,,
38, 86, 31	=	,,
46, 94, 64	=	, ,

numbers **Select** three from the picture. anv Arrange them into ascending and descending order. Do as many sums as possible. **Numbers** 19 22 · \_\_\_\_\_\_\_, \_\_\_\_\_\_, \_\_\_\_\_\_, \_\_\_\_\_\_ 53 7 Ascending order : \_\_\_\_, \_\_\_\_, 61 88 **Descending order :** \_\_\_\_, \_\_\_\_, 98 45 MATHEMATICS **GTIVIT** Prepare the number cards from 1 to 100. 100 1 2 3 64 18 Divide the class into two groups. 88 Group 1 should take any three cards. Group 2 should arrange them in the ascending order.  $\star$  Repeat the activity by changing the group. ★ Repeat the activity in descending order.



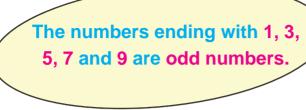
Circle the flowers in pairs.



#### What do you observe?

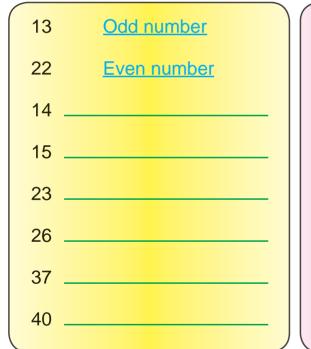
From the above table, we see the numbers 2, 4, 6, 8, and 10 are exactly paired.

The other numbers 1, 3, 5, 7 and 9 are not exactly paired.

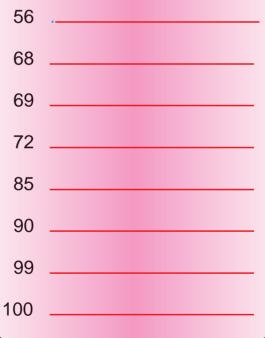


The numbers ending with 0, 2, 4, 6 and 8 are even numbers.

#### Which of the following are odd and even numbers.



MATHEMATICS



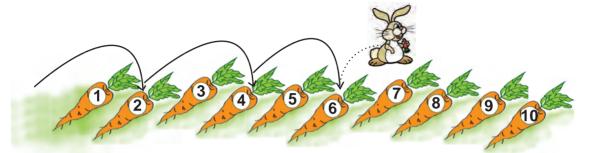
#### See the Fun!

\* The number of letters in the word 'even' is even.

\* The number of letters in the word 'odd' is odd.

#### Skip counting numbers.

Tinku, an active rabbit, jumps over a carrot and reaches the next one. Where will Tinku go next?

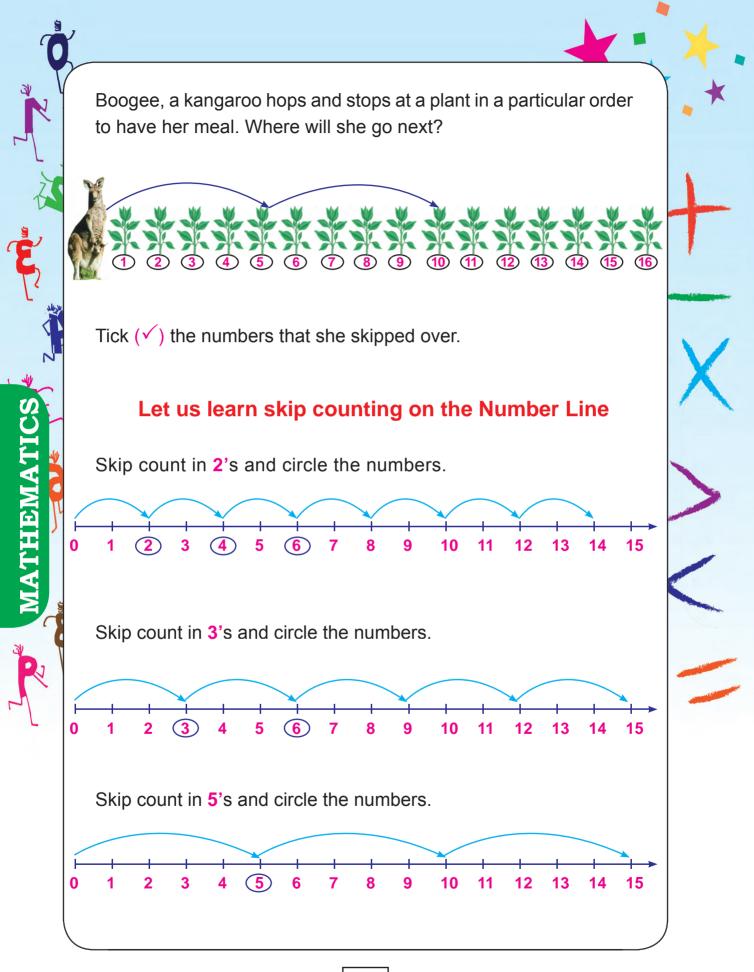


Tick  $(\checkmark)$  the numbers in the carrot that the rabbit skipped over.

Look at the pond where Mr. Froggi jumps and gets on a stone. Where will he go next?



Circle the numbers that he skipped over.



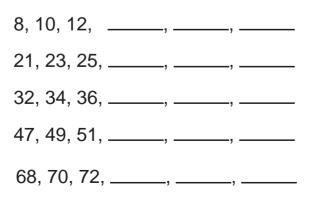
Count in 2's and circle the number.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

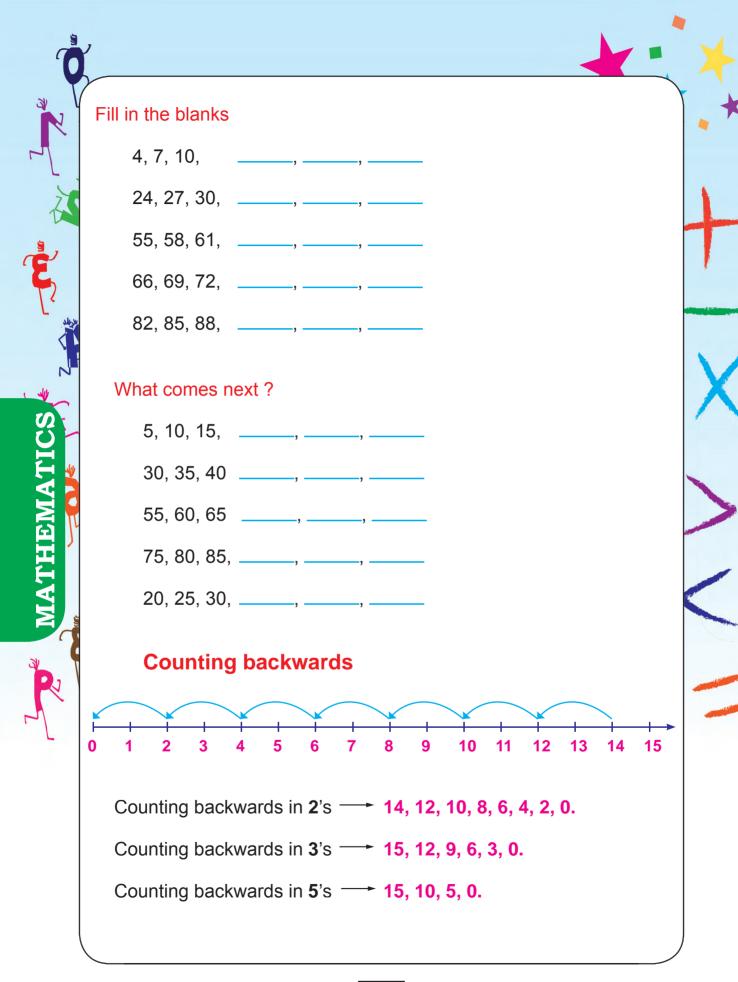
Using the above chart,

- ★ Count in 3's and list it. 3, 6, 9, \_\_\_\_\_
- ★ Count in 5's and list it. 5, 10, 15, \_\_\_\_\_
- ★ Count in 2's and list it. 11, 13, 15, \_\_\_\_\_

#### Read and write what comes next?

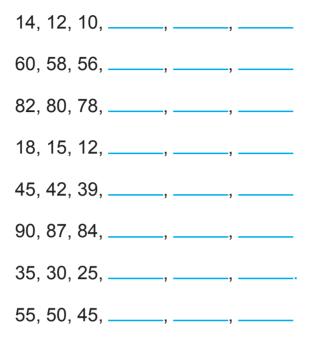


MATHEMATI





## Read and write by counting backwards.



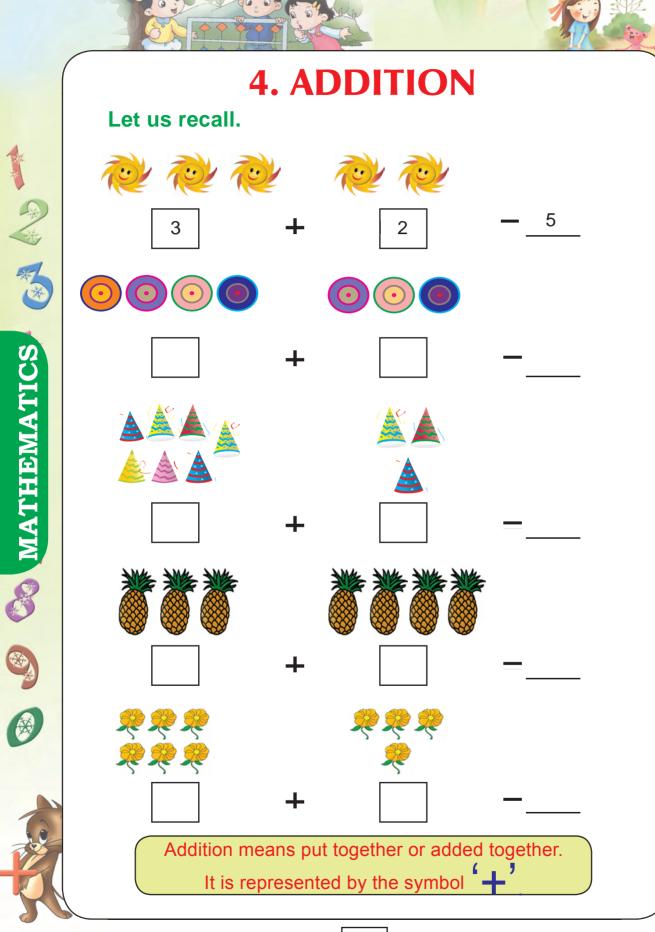
#### Do it yourself

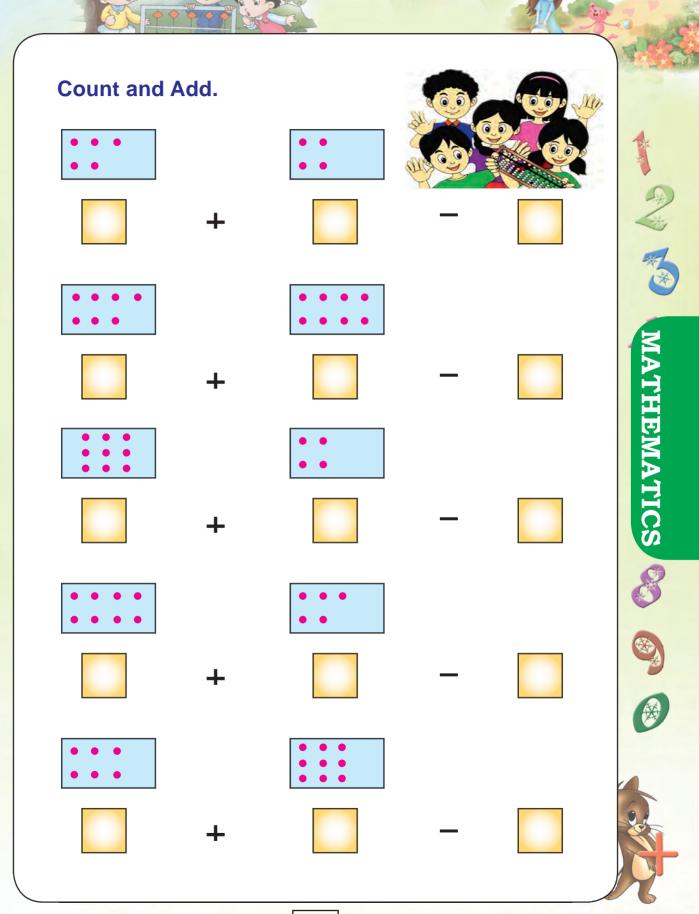


Starting from **50**, count backwards in **2**'s, **3**'s, and **5**'s.





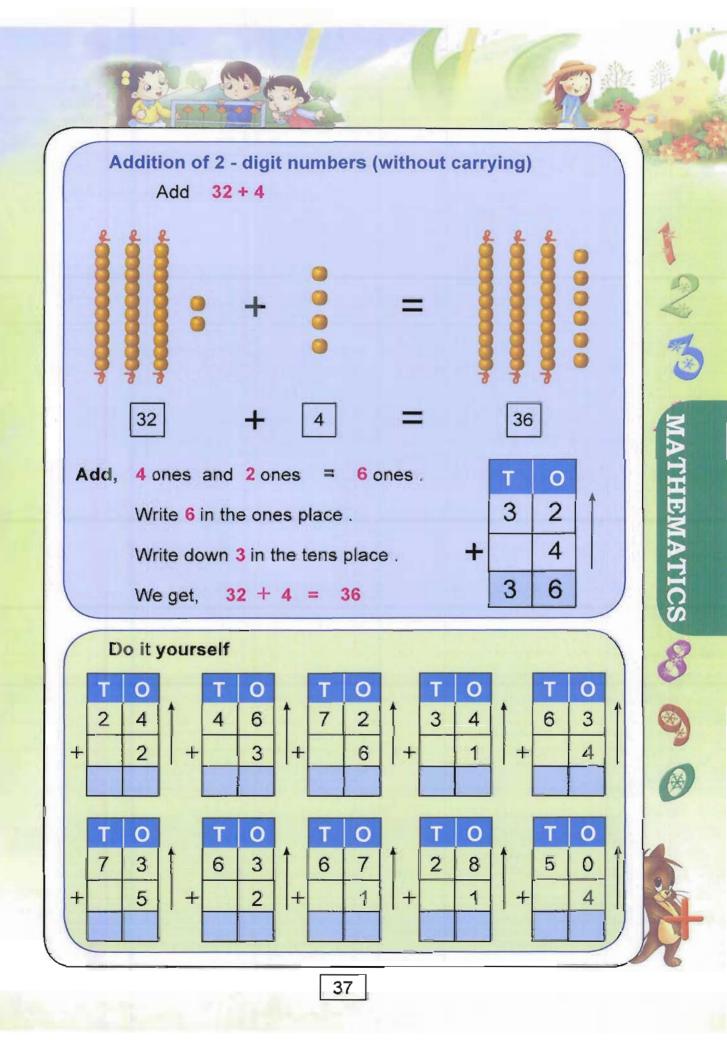




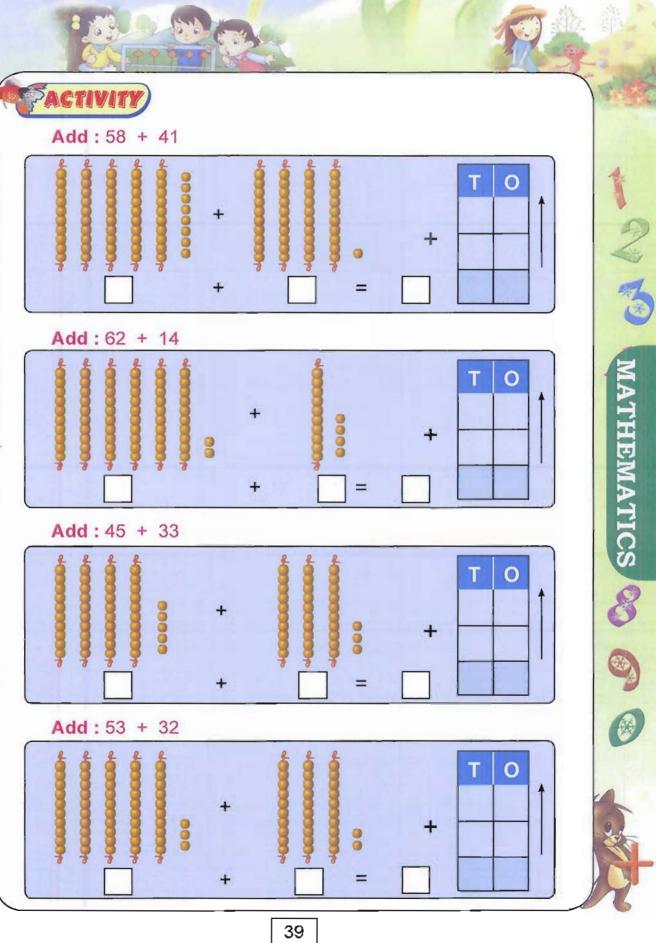
## Fill the addition table

MATHEMATICS (MATHEMATICS)

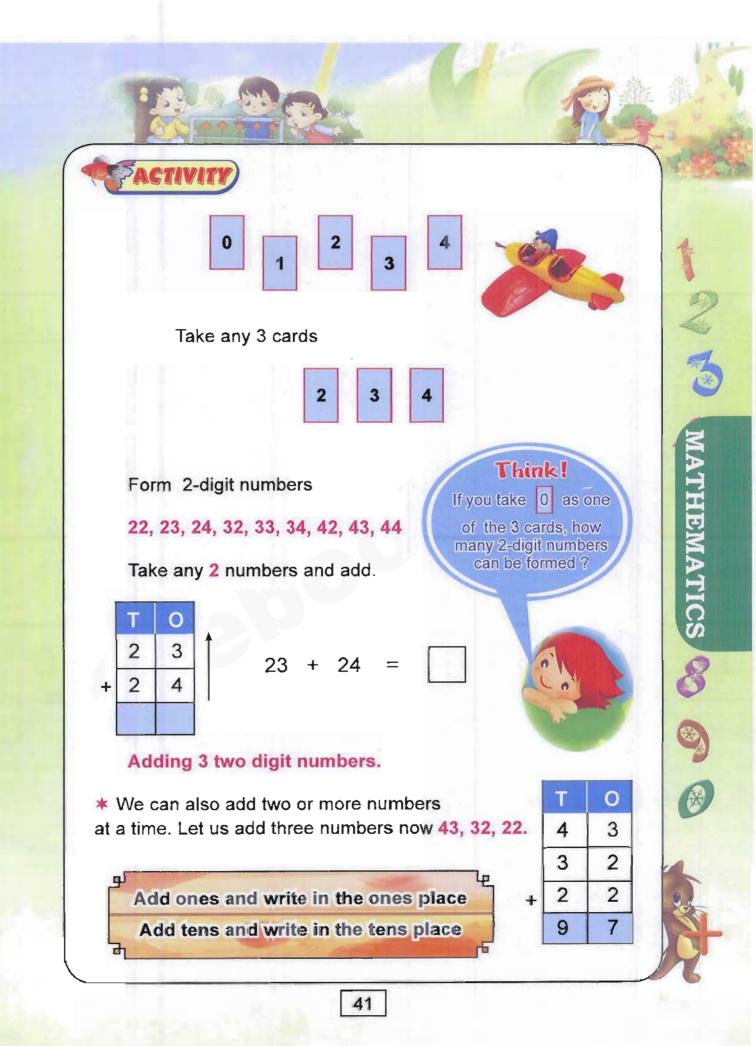
+	0	1	2	3	4	5	6	7	8	9
0			2							
1									9	
2						7				
3				6						
4	4									
5						10				
6								13		
7		8								
8							14			
9										



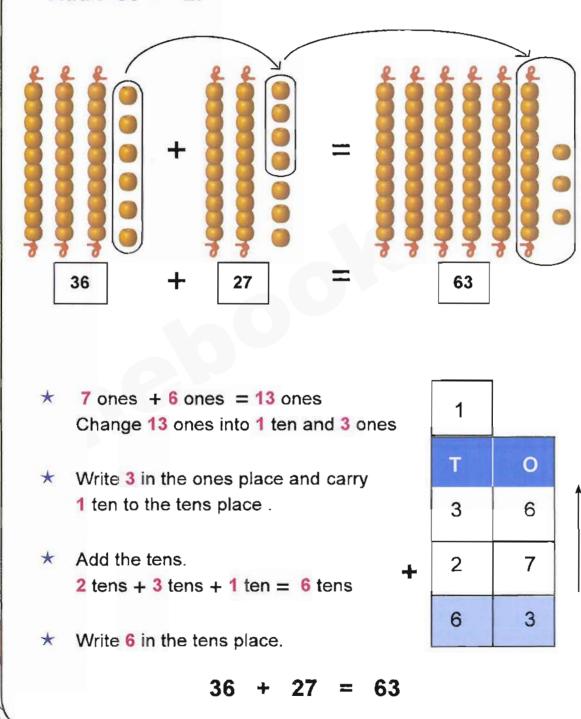
		1 m
(	Add: 44 + 13	1975 m
1 2 5		
	44     +     13     =     57	
ICS	Add ones	
MATHEMATICS	3 ones + 4 ones = 7 ones. write 7 in the ones place. T O	
IEN	write 7 in the ones place .TOAdd tens44	
ATF	1  ten  + 4  tens  = 5  tens. + 1 3	
M	write 5 in the tens place .	
8	we get 44 + 13 = 57 5 7	
3	Add: 52 + 37	
9		
Ø	+ 5 2 + 3 7	
-		
E.C.	52 <b>+</b> 37 <b>8</b> 9	
-	52 + 37 = 89	)
	38	



		1			923		N		5	17	北
		dd and	d write	the answ	ver						
1		т	0	1 1999	т	0			т	0	
		3	2		4	5			6	2	
4	+	2	3	+	3	4		+	3	6	
2 50											
S		т	0		т	0			Т	0	
TIC		4	0		5	3			6	7	
MA	+	2	9	+	3	1		+	2	0	
MATHEMATICS											
MA7		т	0		т	0			Т	0	
0		8	2		7	2			5	2	
0	+	1	2	+	2	4		+	4	1	
9											
0		Т	0	res Tuo a	т	0			Т	0	
		5	6		3	2			6	2	
6	+	4	1	+	2	4		+	2	3	
-											
X	1		_								
					4	0					

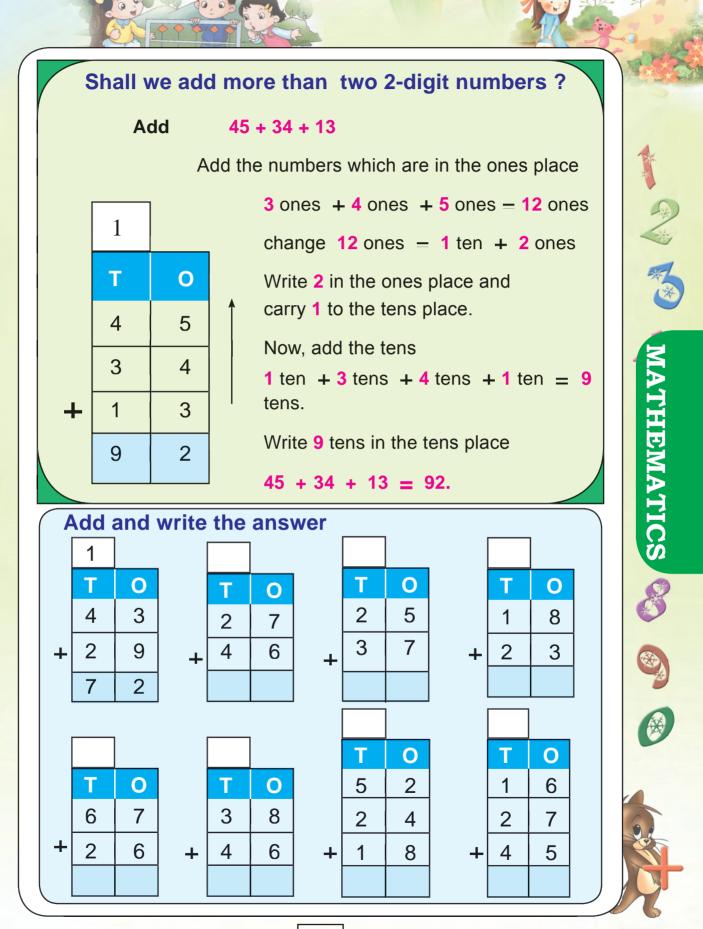


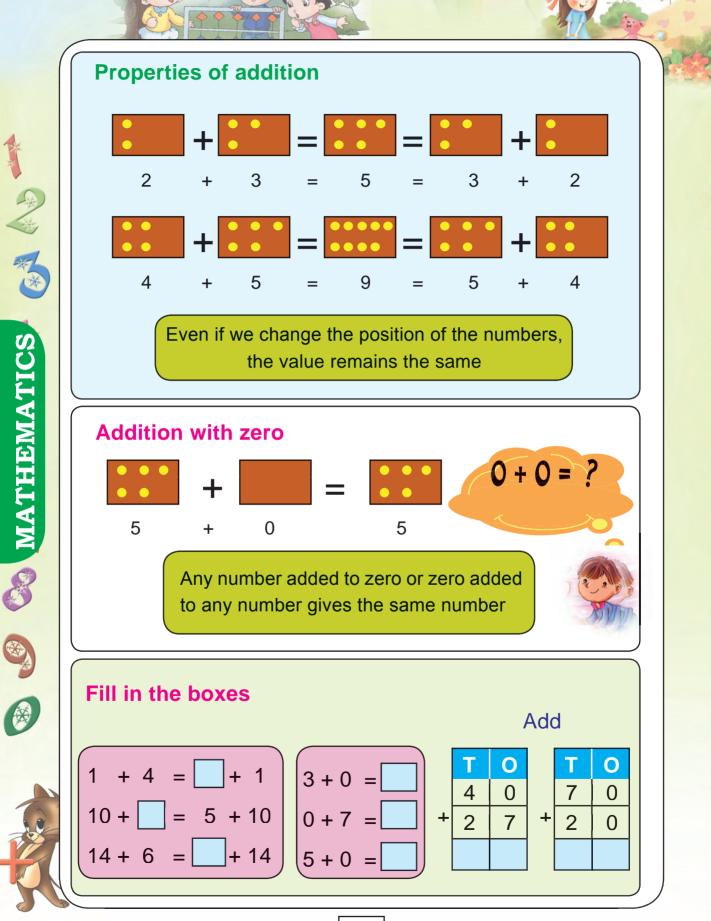
### ADDITION OF 2-DIGIT NUMBERS (WITH CARRYING)



Add: 36 + 27

MATHEMATICS CA No





## Word Problems (Addition)

Ravi has 5 red balls and 3 green balls.

How many balls does he have in all?

Red balls Green balls

Total number of balls = 8

Ravi has 8 balls.

A fruit seller has 40 oranges and 25 apples in his shop.

=

=

= 5

= 3

How many fruits does he have in all ?

A fruit seller has

Oranges

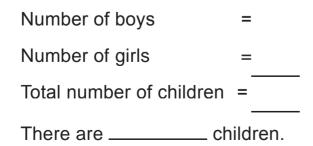
Apples

Total number of fruits

Fruit Seller has \_\_\_\_\_ fruits

There are 19 boys and 23 girls in a class.

How many children are there in the Class?







NHEMATICS



**18** lily flowers and **15** lotus flowers. How many flowers are there in the pond?

46

John scored 24 runs.

How many runs did

both of them score

# Mind Maths



In a basket, there are **30** mangoes and **10** bananas. How many fruits are there altogether?

In a farm, there are **20** goats and **30** cows. How many cattle are there in the farm?





On Saturday, I read **30** pages of a story book. I read another **20** pages on Sunday. How many pages did I read in all?

In two queues, there were **40** men and **50** women. How many people were there in the queues?





60 coconut saplings and 10 mango saplings were planted in a farm. Find the total number of saplings in the farm?



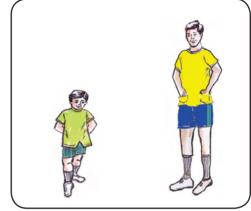
Let us form addition stories Tell me a story for this addition fact, 8 + 4 Umar had 8 rupees in his piggy bank. He puts 4 rupees more in it. How much does he have now? Rita has 8 red bangles and 4 green bangles. Find the total number of bangles she has? Teacher's Note To develop the addition skill in day-to-day life, the above oral activity is suggested Teacher may give more addition facts to the children and 5 ask them to narrate the stories of their own.

# **5. MEASURES OF LENGTH**

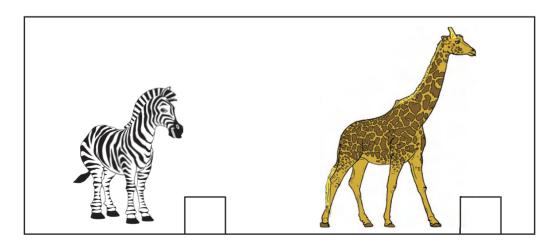
## **Observe the height of the following pictures.**



Tick the taller object.









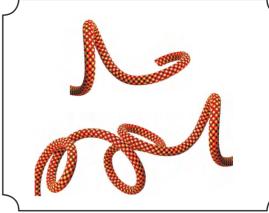
अभारतीय रिज़र्य बैंक र 4RQ 501018 RESERVE BANK OF INDIA

## Observe the length of the following pictures.

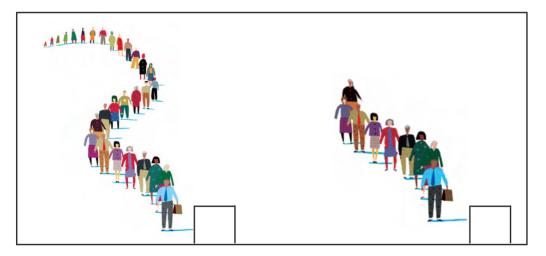


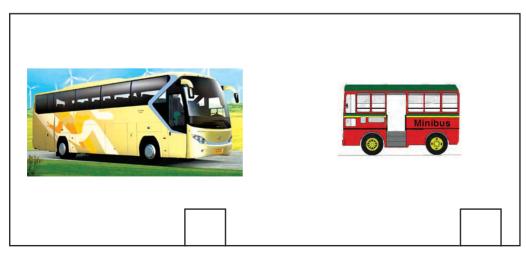
02

MATHEMATICS



Tick which is longer.







ARSEBVE BANK OF INDIA 4RQ 501018





मि रिज़र्य बीक कि 4RQ 501018

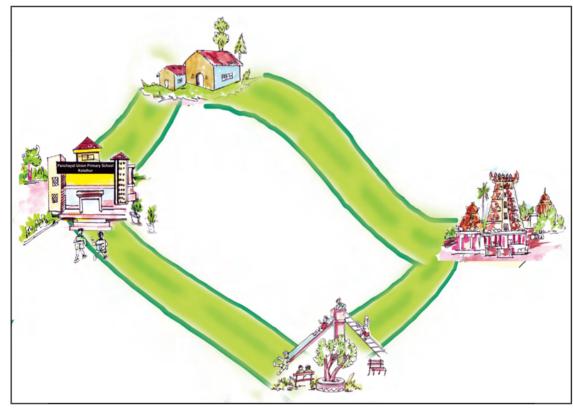
26 27 28 29

24 25

Y

Б

### **Observe the picture.**



## Put $(\checkmark)$ for the correct answer.

Ъ

d

Which is nearer to the house? School / Temple.

Which is nearer to the park? Temple / School

Which is far from the temple? Park / House



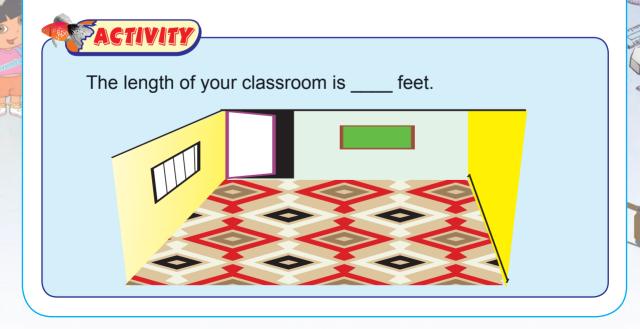


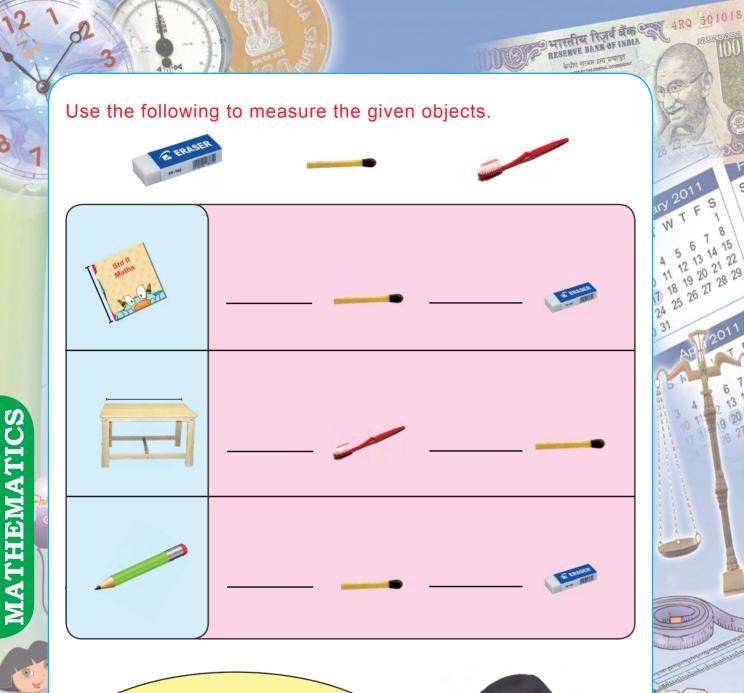
ÐM

The length of the cricket pitch is 22 paces.

d







In the above activities, compare your answers with your friends. This may not be the same. You see some differences in measures. Why?

The size of the hand and foot differs from person to person.

So there is a need for a standard unit of measurement. When we use standard units, the measurements would be the same.

 $\mathbf{O}$ 

- ★ Metre is the standard unit of length.
- ★ We measure larger lengths in metres.
- ★ We measure smaller lengths in centimetres and millimetres.
- ★ The scale has centimetres on one side.



भारतीय रिज़र्य बैंक द्या 4RQ 501018

26 27 28 29

24 25

We buy cloth by measuring its length in metres.

A tailor takes measures of length to stitch a shirt in centimetres







Find out which distance is shorter. Your house to the school.

(or) Your friend's house to the school.

Do you know?

The longest bone in the human body is the thigh bone.





# 'I can, I did' **Student's Activity Record**

UNS RESERVE BANK OF INDIA 4RQ 501018

31

ç

C

17 24

8

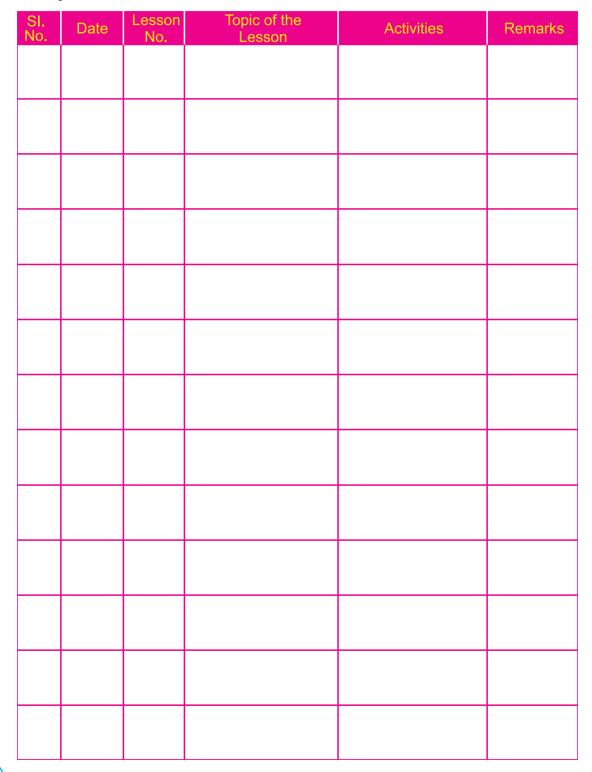
6 13

20

Subject:

02

9



MATHEMATICS