

### Part - 1

# Standard III



Government of Kerala Department of General Education

Prepared by State Council of Educational Research and Training (SCERT) Kerala

2024

# THE NATIONAL ANTHEM

Jana-gana-mana adhinayaka, jaya he Bharatha-bhagya-vidhata Punjab-Sindh-Gujarat-Maratha Dravida-Utkala-Banga Vindhya-Himachala-Yamuna-Ganga Uchchala-Jaladhi-taranga Tava subha name jage, Tava subha asisa mage,

Gahe tava jaya gatha Jana-gana-mangala-dayaka jaya he Bharatha-bhagya-vidhata Jaya he, jaya he, jaya he, Jaya jaya jaya, jaya he.

#### PLEDGE

India is my country. All Indians are my brothers and sisters.

I love my country, and I am proud of its rich and varied heritage. I shall always strive to be worthy of it.

I shall give my parents, teachers and all elders, respect and treat everyone with courtesy. To my country and my people, I pledge my devotion. In their well-being and prosperity alone, lies my happiness.

### **Mathematics**

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#### Dear students,

We have learnt many mathematical concepts, through drawing, colouring and games. Now we know how to count, calculate sums and recognise shapes.

There are a lot more we need to know; learn bigger numbers, their calculations, find relations between numbers, solve problems, analyse patterns and many other things. Let's move forward, thinking divergently, seeking different ways, evolving diverse methods, using logic and exchanging views.

Wishing you the best,

Dr. Jayaprakash R.K. Director SCERT Kerala

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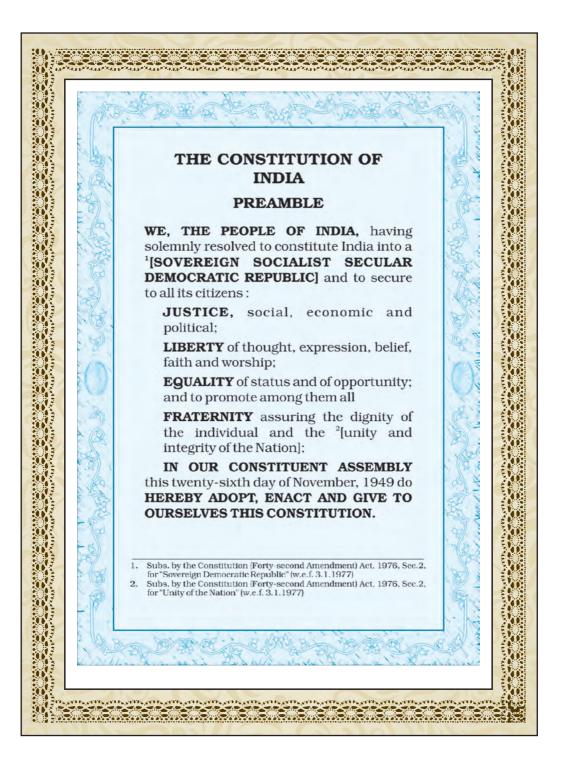


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	EN B



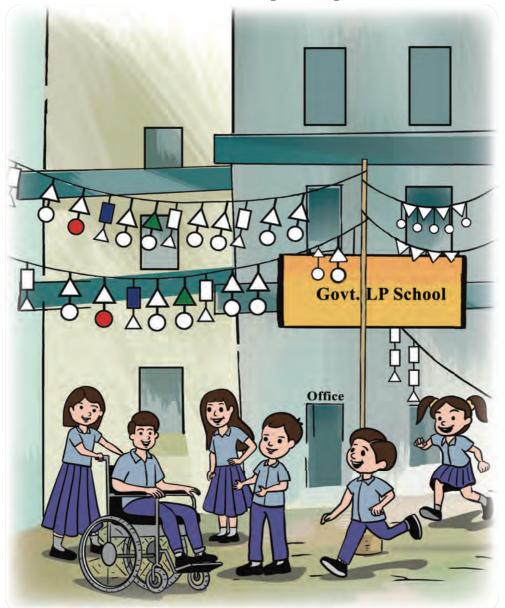




#### **Welcome Fest**

Anu and Subi are in Class three. Their school is decorated for the Welcome Fest.

Colour the festoons and make the picture prettier.



Count the number of each shape in the festoons

Shape		
Number		

#### **Greeting Card**

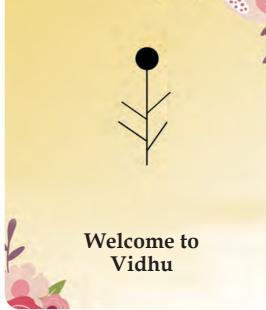
Vidhu is a new student this year.

The others want to make him a greeting card.

Subi and others are drawing pictures and sticking dots to make it pretty.

Can you help?

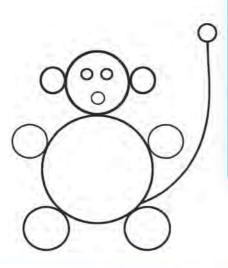
- There is one dot in the picture. How many more of the same size can you fix around it?
- What I guessed:
- How many dots could I actually fix?



#### Can you draw?

See the picture made with circles. Can you colour it?

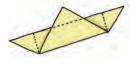
Draw another picture using circles



How did you draw the circles? Any other way to draw circles?

#### Shapes in a boat

Vidhu liked the card. He gave them a paper boat he made.



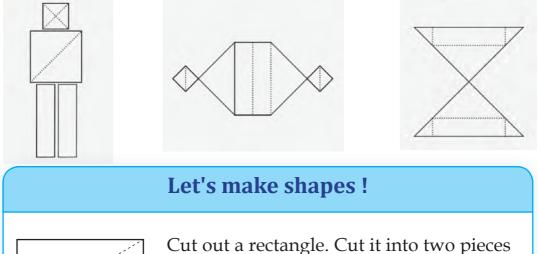


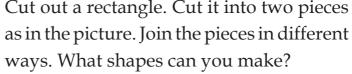
Unfold the boat. What shapes do you see? Write the number of each in this table:

Shape	Name	Number
	Rectangle	
	Triangle	

• Anu unfolded the boat and cut along the folds. See how she pasted the shapes in her notebook.

Like this, paste these in different ways and make more pictures.





Now cut it into four and try.

#### Let's make shapes

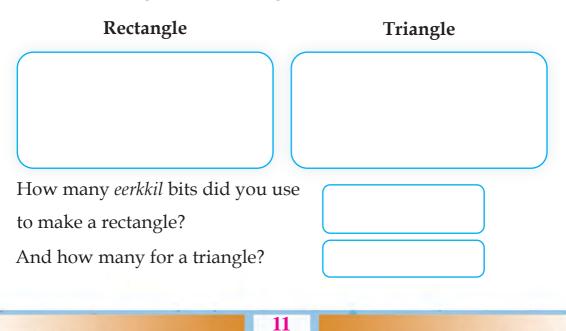


Anu and friends are making rectangles and triangles with *eerkkil* bits.

• Use 24 *eerkkil* bits of the same length to make rectangles and triangles. Write their numbers in the table below.

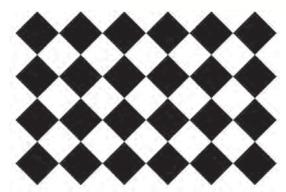
Shape	Number
Triangles	
Rectangles	

• Draw a triangle and a rectangle here.

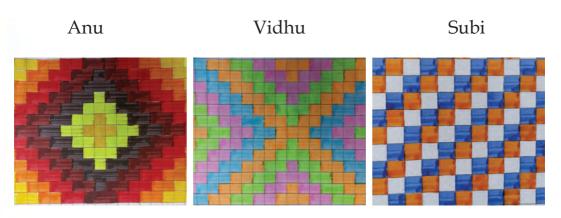


#### **Pictures in tiles**

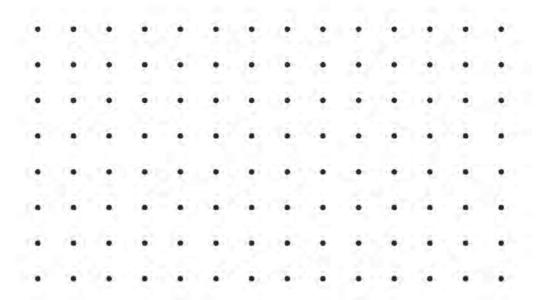
The Grama panchayat has made a smart class room for the school. And the floor is tiled. Isn't it nice?



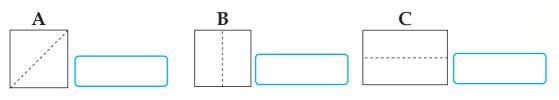
See the tile designs the children have drawn.



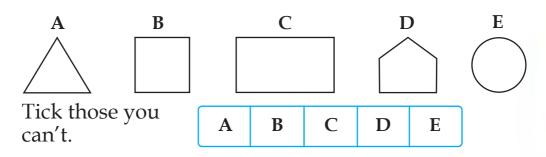
Make a tile design by joining the dots below and colour it. Think in what different ways you can join the dots.



• What shapes do you get by cutting along the dotted lines?

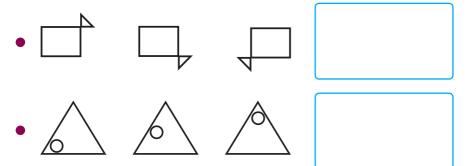


• Draw a single line to divide each picture below into two triangles. For which figures can't you do this?



#### What comes next?

Draw what comes next in each of the patterns below.



Can you draw more patterns like these?

•

#### Shapes around us

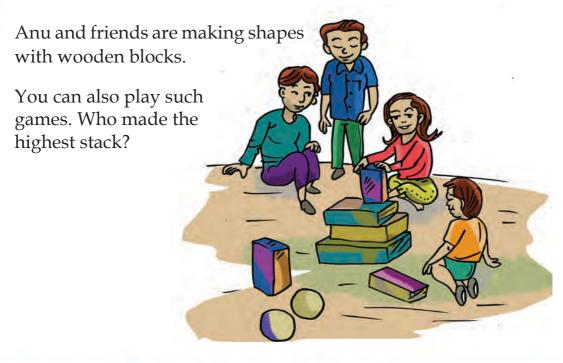
See the picture. Do you see any familiar shapes? Write them down



Do you see any such shapes in and around your school? Write them in the table below.

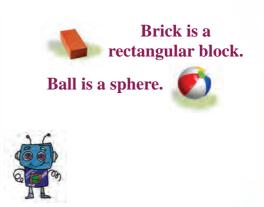
Rectangle	Triangle	Circle

#### **Wooden shapes**



• Write the names of some objects shaped like rectangular blocks and balls.

Rectangular blocks	Balls
<b>N</b>	



## **Vegetable printing**

Vidhu made a vegetable printed table cloth for the work experience contest.

He used okra, carrot, potato and onion to make it.

Can you too make such prints?





# **Evaluation** activities

1. Look at the pictures on page 7. Which picture do you like the most?

What shapes are there in the picture?

Make one such in the sand tray.

#### 2. Joining shapes

Use rectangles and triangles and circles to draw any picture you like.

**3.** Colour the picture below and make it pretty.





## Fill the cells

A game with tokens.

Fill the cells with tokens numbered from 1 to 100. Minha and friends are playing this game. You can also play it. Your teacher also will help you.

1	2	3	4	5	6	7	8	9	10
11									
21								b	
				55					
									100

Where will you put token 65 ? How did you find it out? Put the tokens from 1 to 100 in the correct places. What is the connection between the numbers in the yellow cells? Find other patterns and colour them.

### **School store**



i nee nst					
Item	Price				
Crayons	Rs.25				
Pen	Rs.20				
Sketch pens (packet)	Rs.40				
Notebook	Rs.60				
Markers (Packet)	Rs.75				
Scale	Rs.25				
Brown paper	Rs.25				

Price list

Minha bought things worth 100 rupees.

What could she have bought?

#### What I calculated

#### What my friend calculated



#### **Pencil company**

Minha's father has a pencil company. 10 pencils are to be put in each packet. And 10 packets in each box.

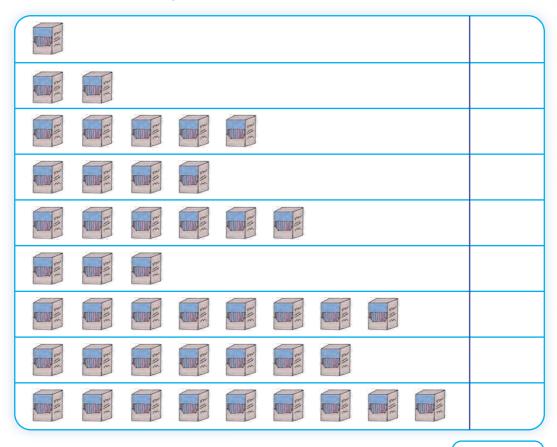
Number of pencils in a packet

Number of packets in a box

Total number of pencils in a box



See how the pencils are boxed. Write the number of pencils in the empty cells of the table below.



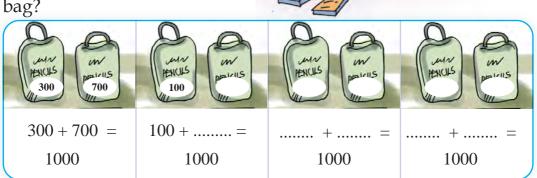
How many pencils would be there in 10 boxes?

#### **Menma Store**

Menma Store wants a thousand pencils. Minha and her father packed two bags with the same number of boxes in each. How many pencils were there in each bag?

# How many?

How many pencils in each bag?



So heavy !

Here, let me shift

some of the boxes to

this

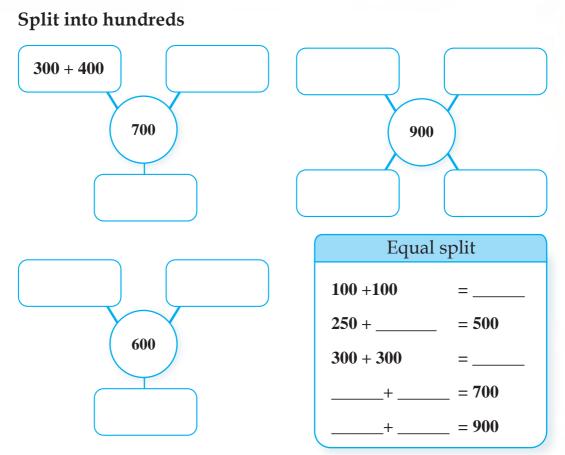
#### Nanma Store

They gave 800 pencils to Nanma Store in two bags. How many pencils in each bag?

Complete the table below.

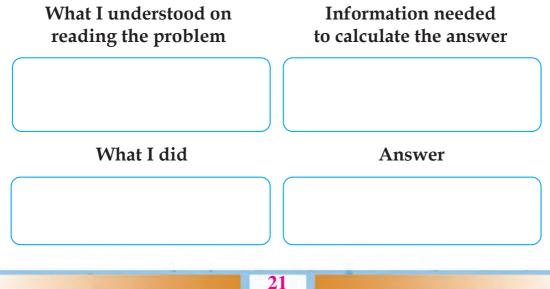
Bag 1	Bag 2	Total
400	400	800
100		800
		800
		800

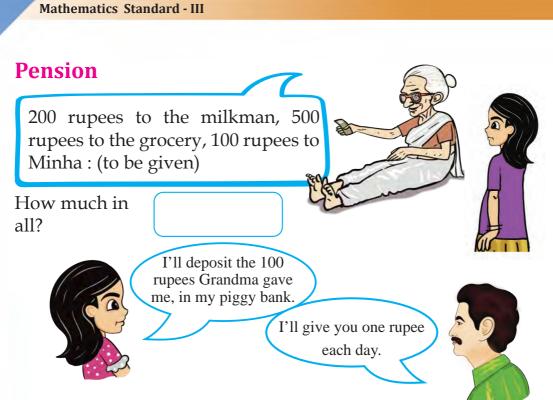




#### A mistake

Minha was asked to pack 870 pencils for the school, in packets of 100 and 10. She filled 7 packets of 100 and 8 packets of 10. How many did she pack in all? How many more are there to be packed?





Minha wrote in a card, how much she had in her money box each day. Can you complete it?

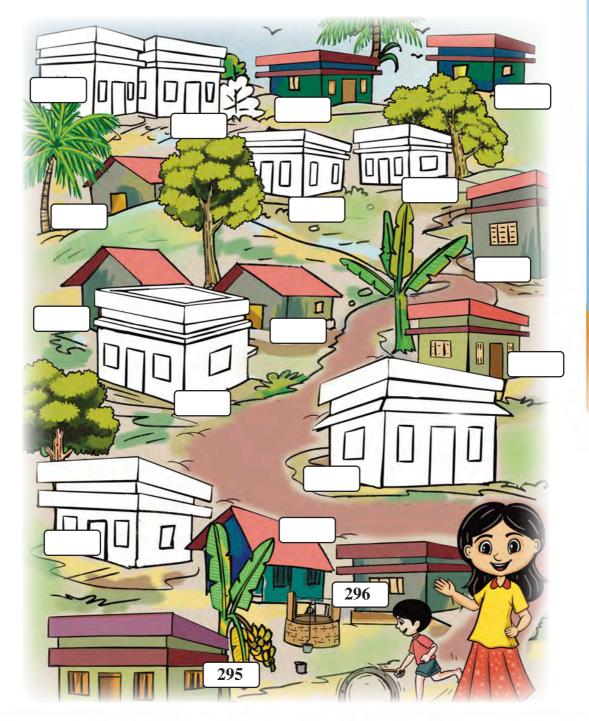
What I got each day	Using place value card	Amount
First day		100
Second day		100 + 1 = 101
Fifth day		
Sixth day		
Eighth day		
Ninth day		
Tenth day		
Eleventh day		

How much on the twenty first day?

How much on the fifty fourth day?

#### **Health survey**

A health survey is being conducted. They visit houses in the order of their numbers. They reach Minha's home and the house number is 296. Write the numbers of the houses they are going to visit next, in the correct order. You can also colour the houses.



#### **Price of pencils**

Anay bought a box of pencils from the factory where Minha's father's shop. The price was Rs 300. In what denominations would he have given the following notes and coins?



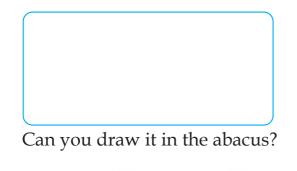
How I calculated

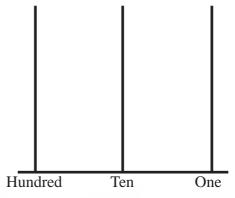
How my friend calculated



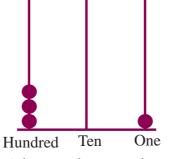


If each note and coin in the picture is taken together, how much rupees would it be?





Hundred Ten One What is the number shown in the abacus?



What is the number?

Draw beads to make it 764 in this picture.

Hundred Ten One Draw beads to show

Numbers Are Our Friends !

any number you like and write it down.

#### A cheque

Look at the cheque Minha's father wrote. The amount is written only in words. Write it as a number.

	Thiruvananthapuram Bran Thiruvananthapuram 6950 JFS Code - KSC001234			0	8	О м	7 M	2 ¥	0 Y	2 ¥	4 Y
Pay		Raghav	ан			1		_	c	or Be	arer
Rupees	Thousand			-		Ŧ					
Acount Numb	per KSC 0000320237		- only				in	figu	ires		
Valid for Three from the Date of						P	leas	e sig	gn at	oove	Ē.

#### Complete the table

Number	In words
125	
	Four hundred five
	Eight hundred ninety
	Three hundred forty two
617	
550	
261	

#### **Bank deposit**

Look at the pay-in slip of a bank. We have to write the number of notes of each denomination and the total amount.

Minha's father gave 6 notes to deposit 800 rupees.

What notes would he have given?

count Holder's Name		And the second sec		
Bank & Branch	Cheque No.	Amount	Denomination/Pieces	Amount
Stand of Standard	ourder 110,	₹	500 x	₹
		₹.	200 x	2
	-		- 100 x	5
		₹	- 50 x	2
Total ₹			20 x	₹
when a started			10 x	*
Total (in words)			- 5 x	₹
			2 x	₹
			1 x	
Name of depositor			- Coins	₹
Signature of depositor			Total (in figures)	*

#### **Number of notes**

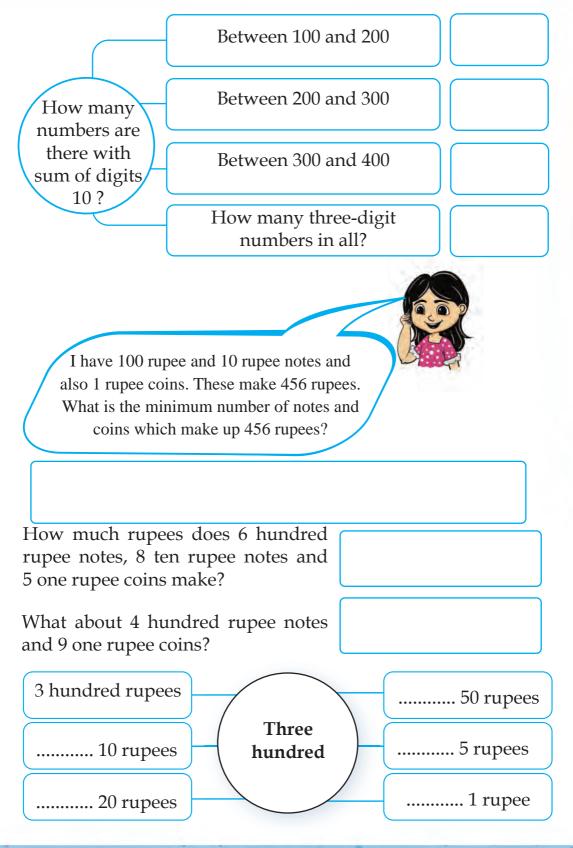
I have 370 rupees remaining. The number of notes is the sum of the digits of this number. What notes do I have? And how many of each?

#### Sum ten

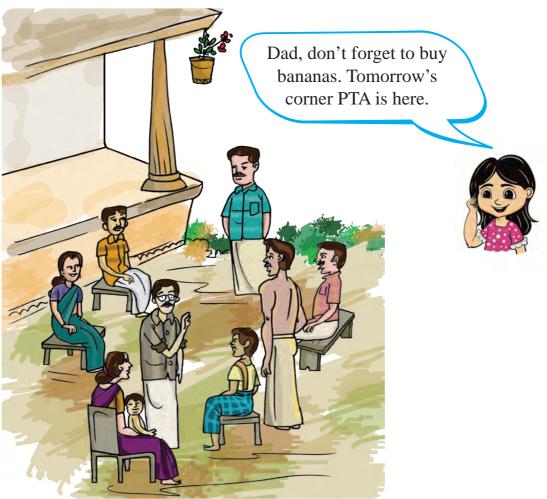
The sum of the digits of 109 is 1 + 0 + 9 = 10.

What is the sum of the digits of 118?

Another number is 127, isn't it?



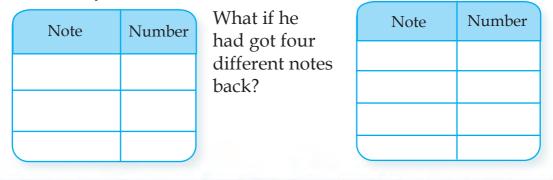
### **Corner PTA**



Father bought 6 kilogram of bananas for the corner PTA. The price of one kilogram of bananas is 50 rupees. Father gave a 500 rupee note and got three notes in different denominations back.

What notes did he get?

How many of each?





Minha and friends went to the park.

898

Here's a dragon. Let's play with it.

Write the next numbers on the dragon.

Read and write these numbers.

Eight hundred ninety nine

Nine hundred

Nine hundred one

ninety Nine hundred

ninety five

Jim

Nine hundred

Nine hundred ninety eight



#### **Brother's gift**



The longest river

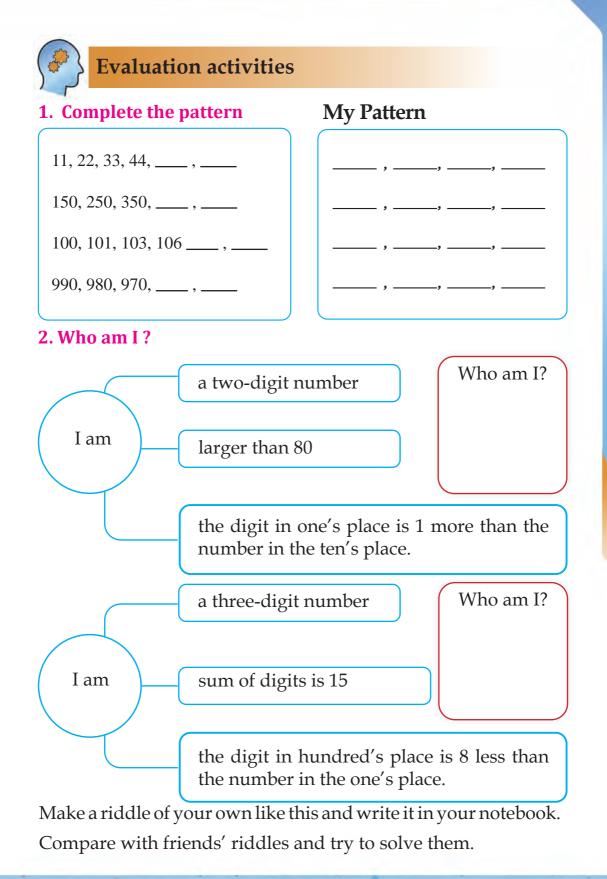
The shortest river

Minha's brother gave her a gift. A map showing the rivers of Kerala. She liked it very much

See, how they have tabulated some of the rivers of our state and their lengths. Then write the answers to the questions below.

River	Length (km)	
Manjeswaram river	16	
Valapattanam river	110	
Chaliyar	169	
Bharathappuzha	209	
Periyar	244	
Pamba river	176	
Achankovil river	128	
Neyyar	56	
Kallada river	121	

How many rivers in the list are longer than Chaliyar? Write their names in the order from the longest to the shortest.



#### 3. School store

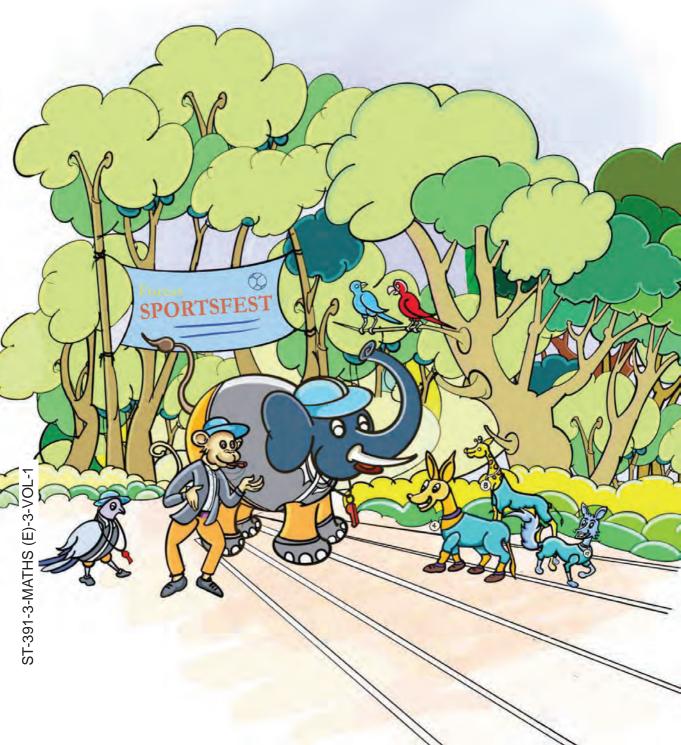
The school store needs 950 pencils. Minha gave 7 boxes and 6 packets of pencils. Each box has 100 pencils and in each packet, 10 pencils. How many more should she give to make it 950 ?

How did you calculate?

Suppose 950 pencils are given in boxes and packets.

Number of Number of packets boxes 4. Fill up the blank circles i. 401 501 301 299 399 499 ii. 300 400 500 iii.





#### **Sports-fest**

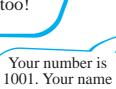
Welcome to the sports-fest at Poomala forest. All contestants please collect your chest numbers. The 15 athletes starting with number 986 please get ready for the long jump event.

Write the chest numbers of the contestants for the long jump event.

986		990









1000 and 1 together make 1001.

> Whoops! Now the numbers are jumbled. Can you help me put them in order?

1002, 1003, 1004, ....., ....., ....., ....., 1012



#### Announcement

The table shows the numbers of the contestants for manchadi collection. It must be filled for the announcement. Can you help Kuttan elephant?

879	Eight hundred seventy nine
904	
918	
906	
809	
749	



### ATM

Titu parrot has sponsored some prizes. She needs 760 rupees for it. The ATM in the forest has only 100 rupee notes, 10 rupee notes and 1 rupee coins. What all notes and coins would she have got? How many of each?

My computation

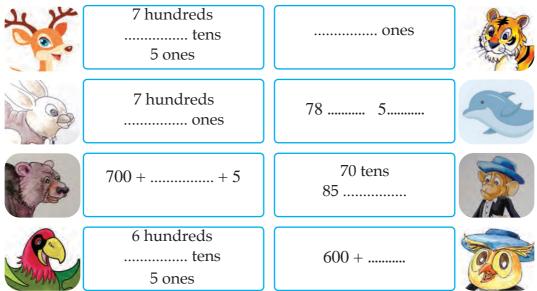


#### **Fund raising**

A group of four were asked to collect money for food. See how much each got.

Member	100 rupee notes	10 rupee notes	1 rupee coins	Total
	9	8	3	983
	7	14		
Acces of the second				785
		10		909

Chakki kite collected 785 rupees. What are the ways in which she could have got this? See how some of her friends thought about this.



Write in your notebook, the different ways of splitting 909 rupees collected by Kunjan owl.

## **Eating contest**

Mallan elephant is making bundles of sugar cane for the eating contest. He has made 20 bundles of 100 each. How many sugar canes in all?



Jimpan giraffe, Balu bear and Dinku donkey agreed to carry the sugar cane bundles to the spot. How many bundles did each carry?

	Number of bundles	Number of sugar canes
And the second s	6	
	10	
X		

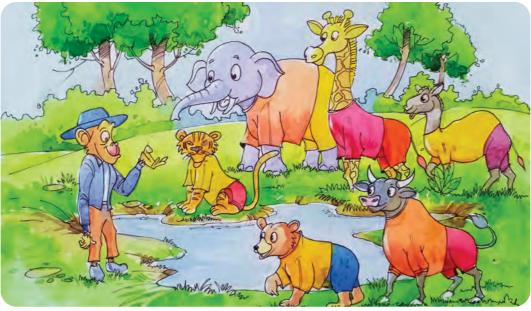
2000 mangoes were stored for the contest. They are kept in 4 sacks, each containing the same number of mangoes. How many in each?



# Water drinking contest



Those who have given their names for the water drinking competition please report at once.









There are barrels containing 30 litres, 20 litres and 10 litres of water. The one who drinks the most is the winner.









See how much each has drunk. Complete the table

	Amo	TT + 1 + 1+		
Name	50 litres	20 litres	10 litres	Total in litres
Jimpan Giraffe	1	3	1	
Kompan elephant	3	4	2	
Jintu bear		2	2	
Kuttan camel		5	10	
Mallan tiger				80
Chillu bison				100

Who won?

Think of two 50 litre barrels of water. How

many 20 litre barrels contain the same

amount of water?

And how many 10 litre barrels?

Don't you know that we won't have enough water during summer? Please don't waste water.

Write the amount of water each has drunk in the ascending order.

# **Gift coupons**



Kangaroo Sports gave a gift coupon worth 900 rupees to each of the contestants in the first three positions. Each could choose three items. Which items would they have chosen?

Item	Price (Rs.)
Cricket bat	750
Badminton bat	300
Football	650
Shuttlecock	250
Net	400
Volleyball	350

Price (Rs.)
600
200
150
100
50

	Items selected	Price (Rs.)
MINI		
233		

# **Children's contests**

Mittu rabbit is preparing chest numbers for the children's contests.

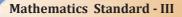
- Chest numbers from 10 to 20 are made for the 100 metre race. How many cards are there?
- Numbers from 30 to 50 are, made for the swimming contest. How many are given the cards?
- Numbers from 60 to 100 are for gooseberry gathering. How many cards are needed for this event?

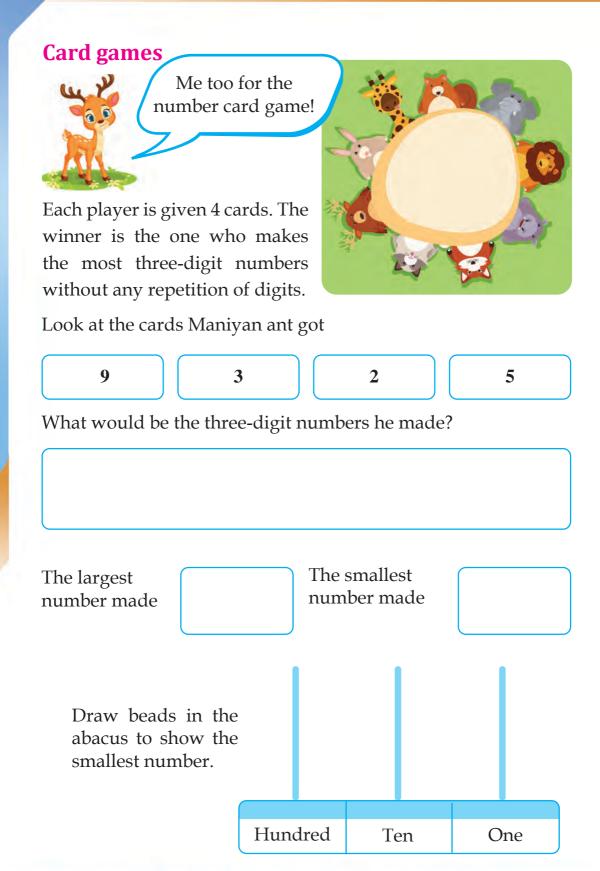
#### How I found the answer

• How many two-digit numbers are there in all?	
• How many numbers are there between 100 and 200?	
• How many three-digit numbers are there in all?	
• How many odd numbers are there between 1 and 100?	
• How many even numbers are there between 1 and 100?	

#### How I calculated

#### Any other method?





What is the peculiarity of the sum of two consecutive numbers?

 $1+2, 2+3, \ldots, 5+6, 6+7, \ldots$ 

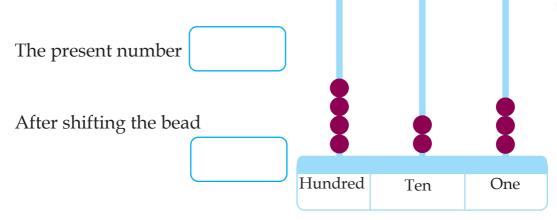
Do more examples to find the peculiarity-

- What's the peculiarity of the sum of two odd numbers?
- What about the sum of two even numbers?
- How much does 6, 60 and 600 make?
- 8 hundreds added together is equal to how many tens added together?



## **Evaluation** activities

- **1.** The number formed by 7 hundreds, 6 tens and 5 ones was written as 675. What is the correct number? How many tens should be added to 675 to get the correct number?
- **2.** If one bead in the place of 100 is shifted to the place of 10, how much would the number decrease?



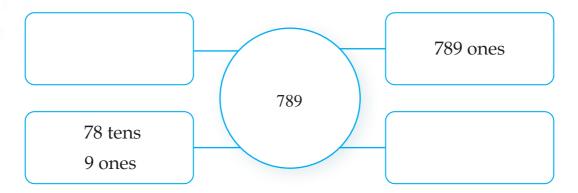
If a bead from hundred's place is shifted to one's place, how much would the number decrease?

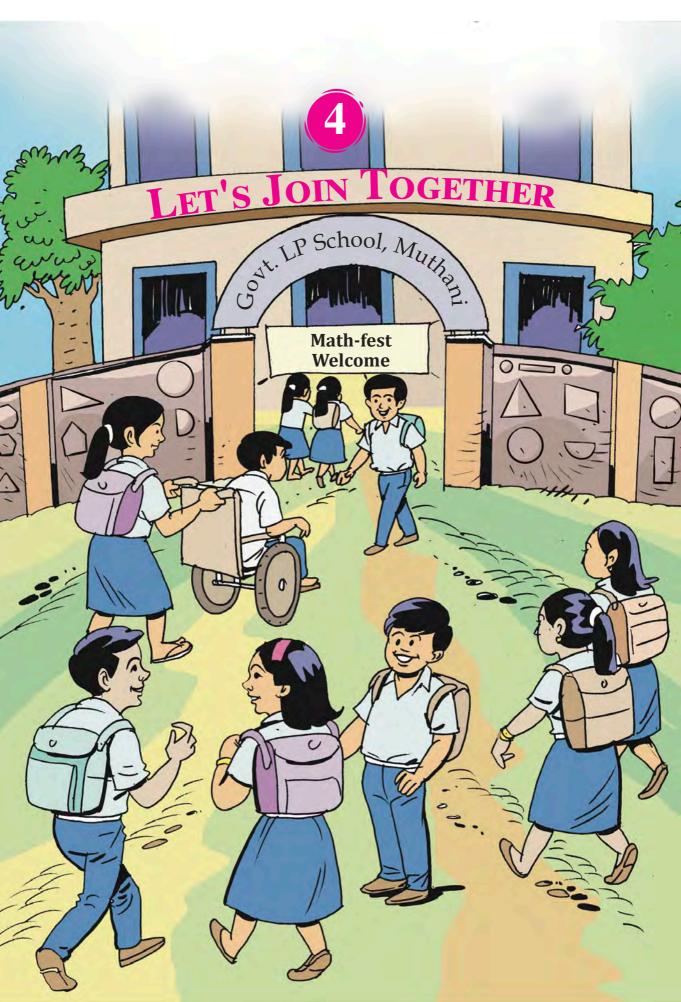
Using only the number of beads now in the abacus, The largest three digit number that can be made.

The smallest three-digit number that can be made.

- 3. Complete the pattern
  - 596, 597, 598, ....., .....
  - 102, 112, 122, ....., .....
  - 123, 234, 345, ....., .....
  - 986, 886, 786, ....., .....
  - 900, 890, 880, ....., .....
  - •

#### 4. Fill up the blanks





# **Math-fest**

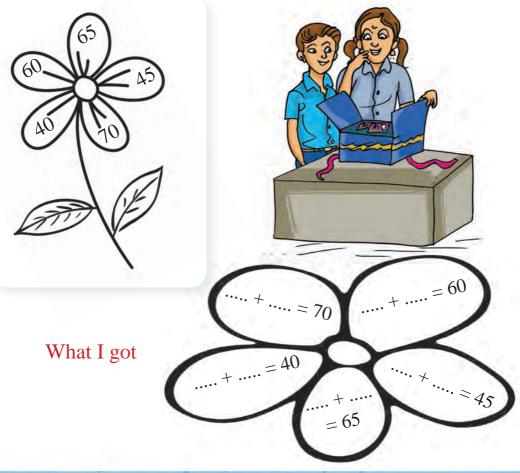




# Stall - 1

Add up... Colour in...

Take two cards from the box. Find the sum... Colour the flower.



Pair	Sum	Pair	Sum	4
1 + 9	10	1 +	100	
+	10	+ 65	100	Complete the
+	10	60 +	100	table
+	10	70 +	100	
+	10	+ 45	100	
which add up to 100. Can you find some more? 49 + 51 = 100 48 + 52 = 100 Can't we easily find all pairs with the sum 100 ? A pair means two things taken together. 80 and 20 form a pair with the sum 100				
sum 100.Sum 100Pairs making 1000 $50 + 950 = 1000$ $50 + 950 = 1000$ $150 + 850 = $ $250 + $ $= 1000$ $+ 650 = 1000$ $450 + $ $= 1000$				

# Pairing

# Stall - 2

**Cloth shop** 



Which among the two dresses can we buy with 500 rupees?

Look at the prices and calculate.

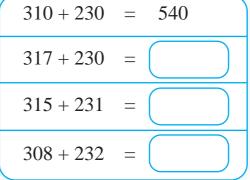
Bill 1		
Item	Price	
Total	500	

Bil	11 2
Item	Price
Total	500

Stall - Beauty of nu	
What are the numbers you can mak using these digits only once?	xe by
Which is the largest among them?	
And the smallest?	
What is their sum?	
The numbers I got	
	ne smallest umber I got
Sum My guess: between	and
Number got by adding	
	What if we use the digits 3, 4, 5 ?
-	The largest number
The smallest number	The smallest number
The number got by adding	The number got by adding

The speciality of the digits of the sum

Write the answers without actually adding. Say how you did them.



## **Stall - 4** Let's play together!

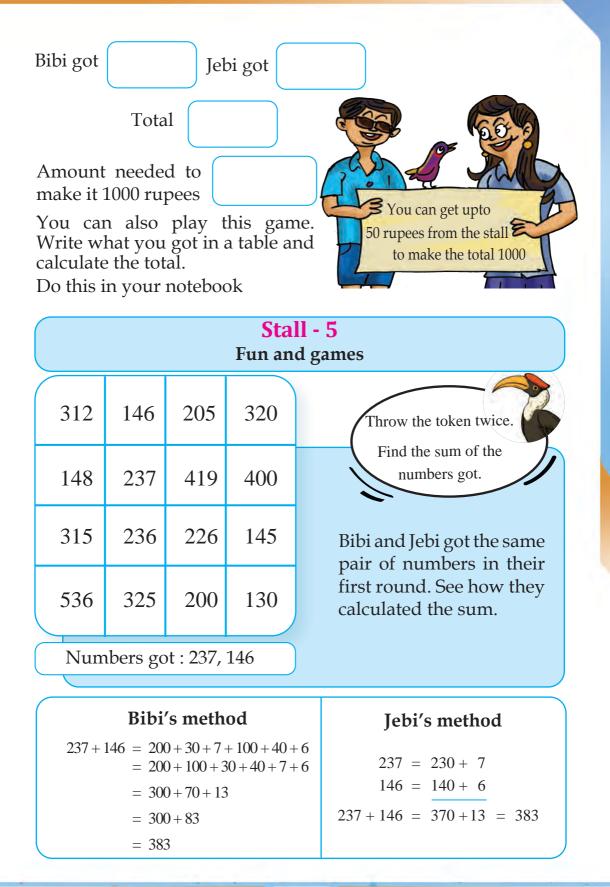
Welcome ! Everyone gets a gift packet

# What Bibi and Jebi got



Hey ! Play money !

Notes/	What Bibi got		What Je	bi got
Coins	Number	Amount	Number	Amount
200	2		0	
100	0		2	
50	4		0	
20	3		0	
10	4		5	
5	0		2	
Г	Total		Total	



Hundreds	Tens	Ones	
2	3	7 +	
1	4	6	
	1		
3	8	3	

7 and 6 added together gives 13. The 10 in 13 is shifted to the place of tens.

237 and 146 added together gives 383. What do we get on adding 236 and 148 ? Can you do it in your head?

Minha got 536 and 325. See how she found the sum. 536 = 500 + 30 + 6

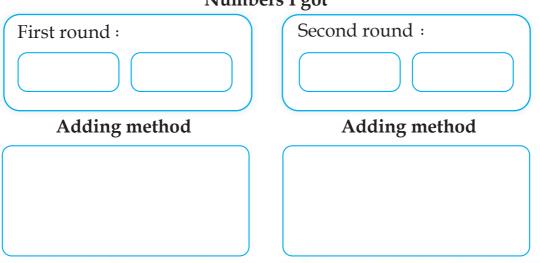
$$336 = 300 + 30 + 6$$
$$325 = 300 + 20 + 5$$
$$536 + 325 = 800 + 50 + 11 = 861$$

536+	
300	
836+	
20	
856+	
5	
861	

Let's play this number game.

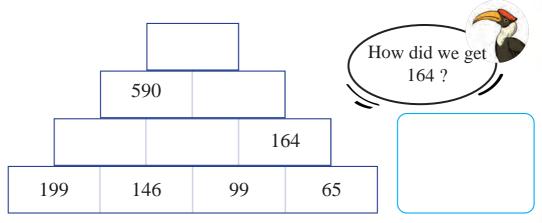
Each player gets two throws.

Find the sum of the numbers got in each round.



#### Numbers I got

# Find the mighty



If 1 is added to 199, what will be the change in the mighty one? Say it without any lengthy computation.

If 1 is added to 146, what will be the mighty one then ? Say it without any lengthy computation.



Suppose we add 2 to 199. What will be the mighty one then? If each of the four numbers at the bottom is increased by one, how much would the mighty one increase?

Say how we found out the answers.

# Stall - 6

#### Wonderland of numbers

8	1	6
3		7
	9	2

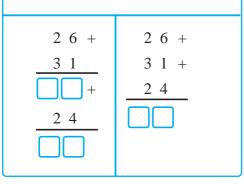
Add the numbers in the first row. Fill up the other cells so as to get the same sum.

Add the three numbers in each column. Also the three numbers from corner to corner. What is special about the sums?

# Magic square

The sums along each row, column and diagonal are all the same.

Which do you find easier?



:	Complete the magic square using numbers from 23 to 31						
		23					
	25						
	26	31	24				

Tell your friend which is the larger sum of each pair.

 1
 56 + 75
 2
 64 + 58

 65 + 57
 46 + 85

### Water supply

	water su	amount of Ipplied dur nath-fest.	drinking ring the four
and the second second	un	Day	Amount (litres)
		1	437
	A A	2	524
	they -	3	581
	A	4	448

- The total amount of water supplied during the first two days is litres
- The total amount of water supplied during the last two days is litres
- How much water was supplied for all the four days?

## Mental math

If the amount of water supplied were 440, 520, 580, 450 litres, what would have been the total amount? Can you calculate this in your head?

litres

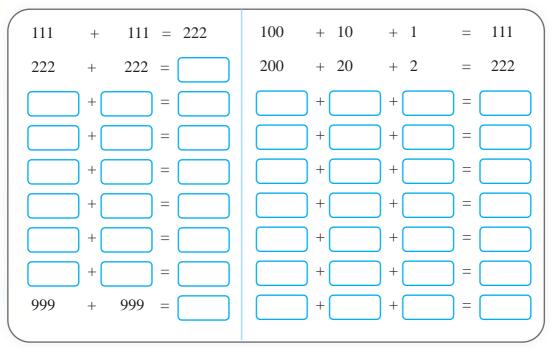
• 281 kids from Kathirani school and 348 kids from Arani school visited the math-fest. How many in all?

# Stall - 7

#### World of patterns

You can write your own patterns on the walls of the exhibition hall.

# **Complete the patterns**



## Pattern I have made

# Go Green !

	to t fest	ture	
Plants given	First day	Second day	Total
Gooseberry	238	241	
Mango	138	152	
Jack fruit	236	166	
Guava	175	246	

- Which plant was given the most?
- How many mango saplings were given?
- Make a few more questions like this.



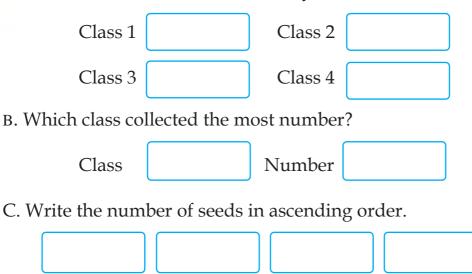


# **Evaluation** activities

**1.** See the number of manchadi seeds the kids in Bibi's school collected for the math-fest.

Cla	ss 1		Class 2
Division	Number	Divisi	ion Number
А	275	Α	300
В	325	В	225
Cla	ss 3		Class 4
Division	Number	Divisi	ion Number
А	375	Α	245
		В	350

A. Total number of seeds collected by each class.



1120

=

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D. Which two classes must be added to get 1120?

+

E. The number of seeds collected together by two classes and 5 more makes 1200. Which are the two classes? Tick the right answer.

A. Class 1, Class 2		B. Class 2, Class 3		C. Class 1, Class 4
---------------------	--	---------------------	--	---------------------

F. How many more does each class need to make 1000?

Class	Number collected	Number needed to make 1000
1		
2		
3		
4		

2. Can you continue the patterns?

A. 140, 260, 380, .....

- B. 25, 225, 425, ...., .....
- C. 600, 610, 630, 660, .....
- D. 200, 310, 430, .....
- E. 0, 115, 230, 345 .....

Which of these increases by 200 each?

- **3.** Muthani school store got 847 rupees on the first day. The next day they got a 500 rupee, a 100 rupee note, five 50 rupee notes and two 2 rupee coins.
  - A. On which day they got more?

	My guess
	My calculations
	My answer
•	How much did they get in all for these two days?
	My guess is between and .
	What I calculated
71-	nich of the sums below give 846 ?

A. 524 + 312 B. 227 + 519 C. 546 + 400 D. 329 + 517

My answer

**5.** Do these sums in your head. Tell the method.

A.	550 + 450	=	•••••	В.	675 + 425 =
C.	730 + 520	=	•••••	D.	890 + 460 =
E.	436 + 324	=		F.	253 + 147 =



# **Rolling marbles**

Allen and friends are playing a game of rolling marbles.



Allen and his friend measured the distance the marble rolled, with their foot. And the measures were different. They solved this problem themselves.

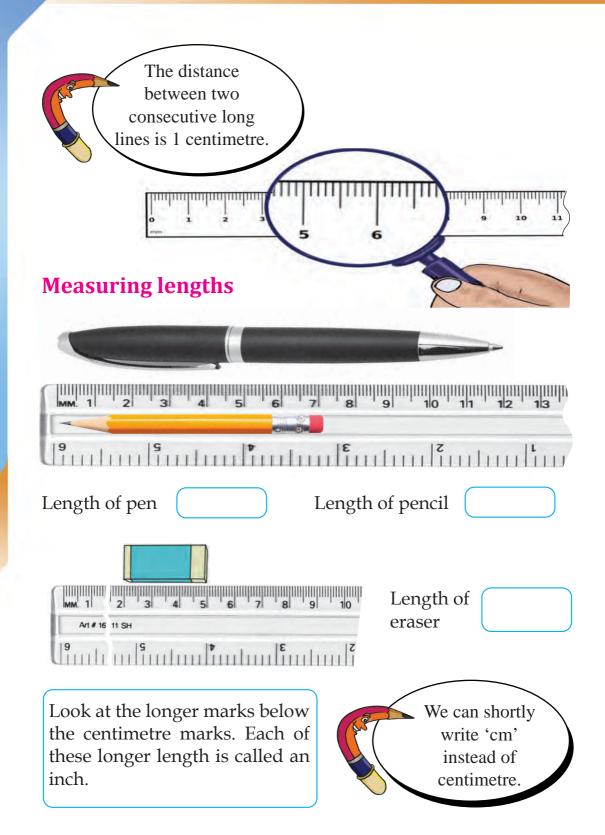
How do you think they did it?

# Lengths in a scale

Take out your scale and check. What all things are marked on it?

- short lines
- •
- •
- •
- •
- •
- •





Look at the paths of the marbles Allen and his friends rolled. Which line is the longest?

Tick your guess.

Measure each

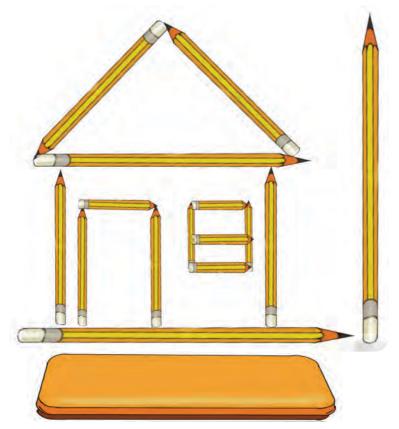
length and write

it on the lines.



# **Pencil lengths**

Look at the picture, Allen made with pencils. Which of these would fit inside the box below? Tick them.



Don't you like the pencil house? Try to make pictures you like with *eerkkil* bits cut to correct lengths.

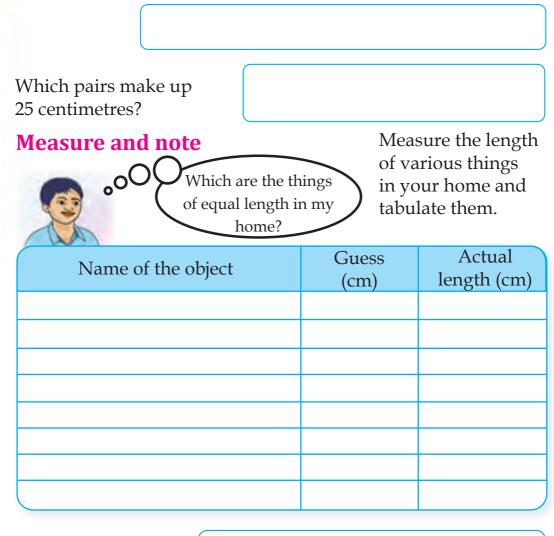
## **Making figures**

Are some of your *eerkkil* bits of the same length? Write their lengths and number in the table.

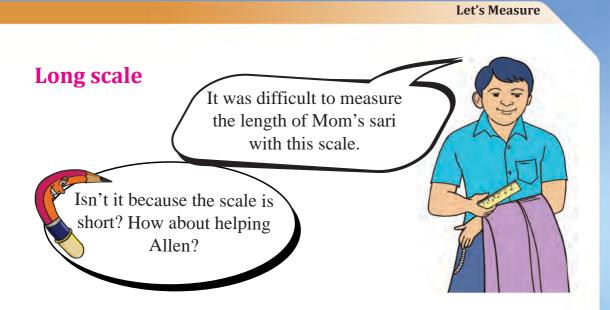
## End to end

Length	Number

Cut out eerkkil bits of lengths 10, 11, 12, 13, 14, 15 centimetres. If they are joined end to end, what would be the total length?



Which are the things of the same length?



Teacher has given you some paper strips, hasn't she? What is the length of the piece you got?



Make groups of five, each having strips of different lengths. Tabulate the lengths of your strips.

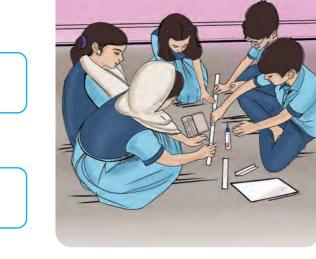
Number	Name	Guess	Length



What would be the total length if all the five paper strips were joined end to end?

#### Guess

Length



Didn't all groups get 100 centimetres ?

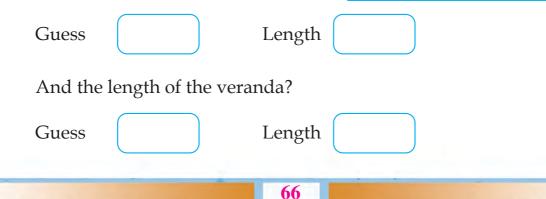
100 centimetres is 1metre.

100 centimetres = 1metre

## Length of classroom

What is the length of your classroom?

Teacher has shown you the metre scale and the 30 centimetre scale, hasn't she?



Guess the length of bench, desk and the blackboard in your classroom. Then actually measure and check. Write them down.

	Guess	Length
Bench		
Desk		
Blackboard		



# Stand...and jump

Let's have a jumping contest today. Each must stand on a line and jump forward. Write the name and distance each jumped in the order of performance.

Place	Name	Distance (cm)

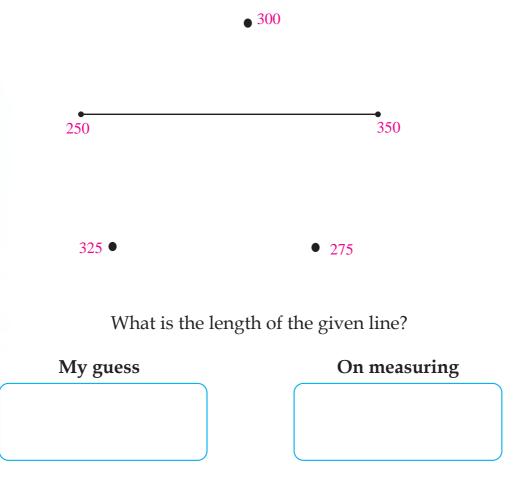
Who among you jumped more than 1 metre?

## **Gift I got**

There's a gift for each of you. To find this out, complete this pattern.

250, 275, 300, ..., ...

Join the numbers below in the order of the pattern.



Are all the lines you've drawn of the same length?

Colour the picture. What's the gift you got?



# What's the height?

Look at the picture of the winners of the jumping contest.

Are all at the same height?



Who's at the highest position?



Complete this table.

Heights	Guess	On Measuring
To the blackboard		
To the switchboard		
To the window sill		
Of the door		
Of the table		

What is the height of your class room? How do we measure it?

My guess		On measuring	
	My height		

Which objects you measured are more than 1 metre height? Write them in metres and centimetres in the table below.

Object	Height	
	Centimetres	Metres and Centimetres
l		

## **Measure around**



How thick is the pillar? Measure it like this.



What else can be measured around?

Around the water bottle

Around top of the table

Around the arm



# **Total length**

Make a rectangle with *eerkkil* bits. What is the total length of the *eerkkil* bits used?

Make a triangle with *eerkkil* bits. What is the total length of the *eerkkil* bits used?

Make a rectangle with *eerkkil* bits of the same length. What is the total length of the *eerkkil* bits used?

Make a triangle with *eerkkil* bits of the same length. What is the total length of the *eerkkil* bits used?

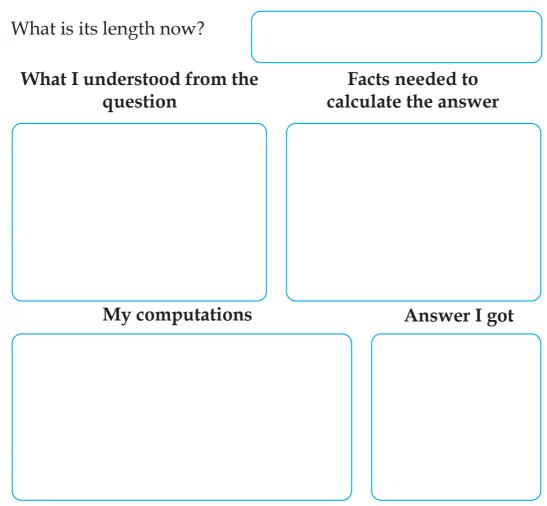


Allen and friends bought a blue ribbon and a red ribbon to play train. Each ribbon is 350 centimetres long.

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What is the total length of the ribbons?

They tied together the ribbons, to make a ring and the length was reduced by 20 centimetres.



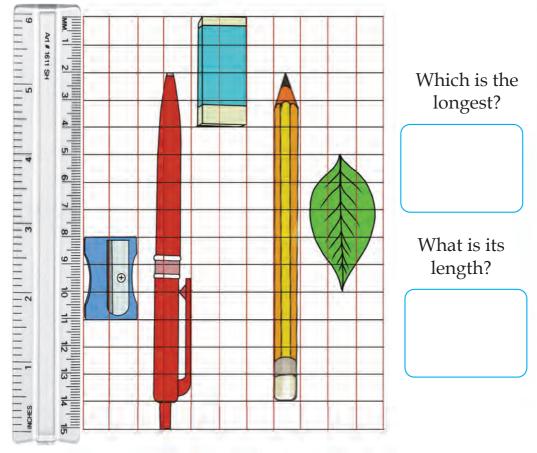
Since all of them couldn't stand within the ring, they bought 6metres each of blue and red ribbons.

What is the total length of these pieces now?

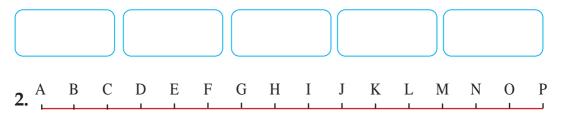
The price of one metre of ribbon is ten rupees. So, how much did they spend on ribbons?



**1.** The longest



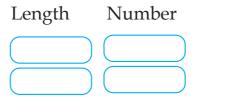
Write the names of the objects and their lengths in order



Which of the following is the longest distance?

- *i.* From A to F *ii.* From B to J
- *iii.* From J to N *iv.* From E to K

- **3.** Equal lengths
  - Cut out *eerkkil* bits to make a rectangle of the same length of your textbook.
  - Are there pieces of the same length among them?



• What is the total length of all the *eerkkil* bits?

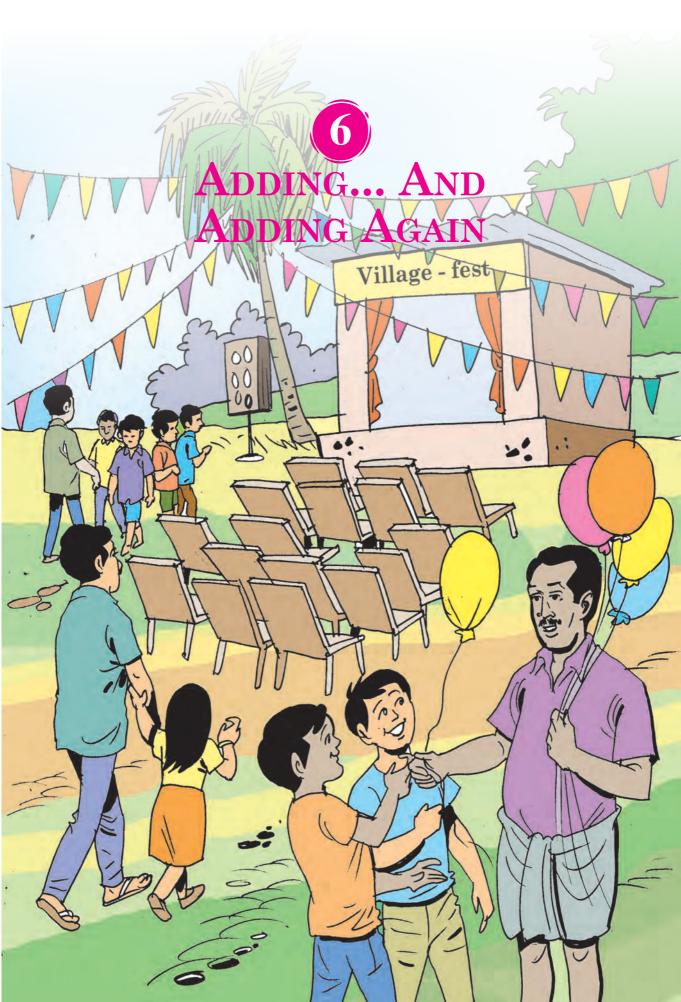
**4.** Length of sari

The length of Mom's sari is 6 metres. From this 70 centimetres was cut off for a blouse.

What's the remaining length?

Write in centimetres.

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## Village-fest

Village-fest is being held at Nanmamukku. There are all kinds of contests for kids. Anu and Allen are in the leaping contest.



Anu is jumping on alternate rectangles, without stepping on the lines. She gets the gooseberries on the rectangles she covers.

Colour the rectangles Anu has covered.

Allen is competing in the contest for senior kids. In it, one has to skip across four rectangles in every leap. Each such rectangle has 5 gooseberries.

Let's complete this table.

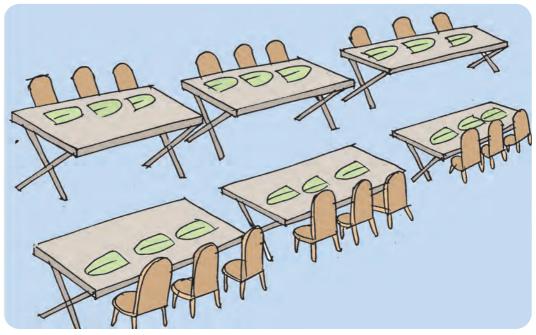
Leap	1	2	3	4	5	б
Gooseberries Anu got	2					
Gooseberries Allen got	5					

## Quiz

There are ten teams for the quiz, and each team has two kids.

How many in all?

# Lunch



Look at the picture.

How many plantain leaves are set up for lunch? How did you calculate?

How many leaves are there on a table?

How many tables are there?

How many leaves are there?

With one more table, how many leaves can be set up?



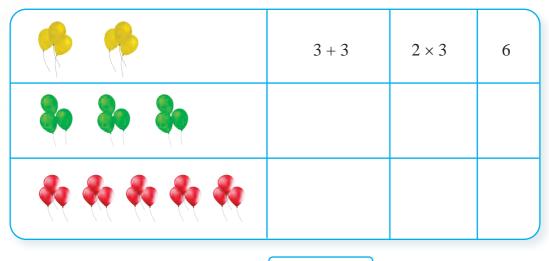
### **Balloons**



See how three balloons of the same colour are tied together.

How many balloons in all?

Look at the picture and write the number of balloons of the same colour in the table.

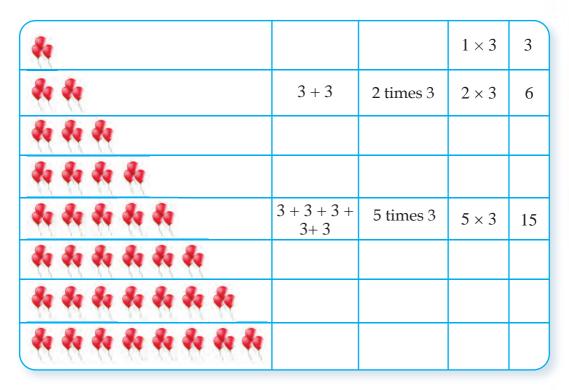


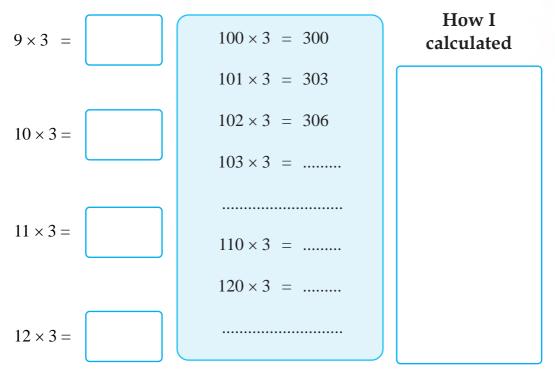
How many balloons in all?



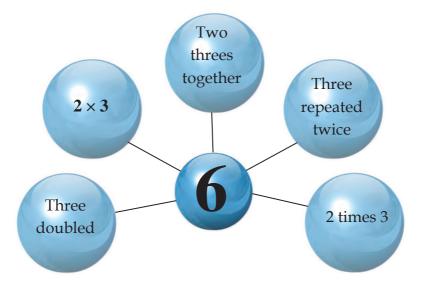
How did you calculate?

## **Complete the table**





# **Different ways**



# Doubling

3 doubled	3 + 3	$2 \times 3$	6
4 doubled			
5 doubled			
10 doubled			
20 doubled			
25 doubled			
50 doubled			
100 doubled			

What I understood from the table.



After lunch, Anu went to the Kudumbashree stall. They are making packets of soap bars, 4 in each. They want to make 5 packets. How many bars do they need?

What I calculated:

## **Relay race**



4 teams competed in the relay race. Each team has 4 runners. How many in all for the races?

3 fives is equal to how many threes?



# **Prize Distribution**



Those who have come first in the competitions are to be given 4 vegetable seedlings each.

There were 7 competitions. How many seedlings are needed?

Five 4's make	4 + 4 + 4 + 4 + 4	$5 \times 4 = 20$
Six 4's make	4 + 4 + 4 + 4 + 4 + 4	

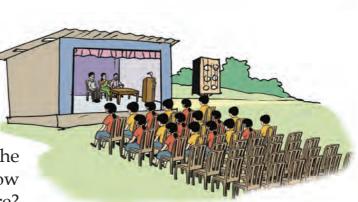
Ten 4's make	Twelve 4's make		
× =	······× ······= ······		
14 × 4 = 16 × 4 =	= <b>18</b> × 4 =		
20 × 4 = 15 × 4 =	= 13 × 4 =		

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### **Final meeting**

See how chairs are arranged for the meeting. There are 6 chairs in each row.

The children sit in the first three rows. How many children are there?

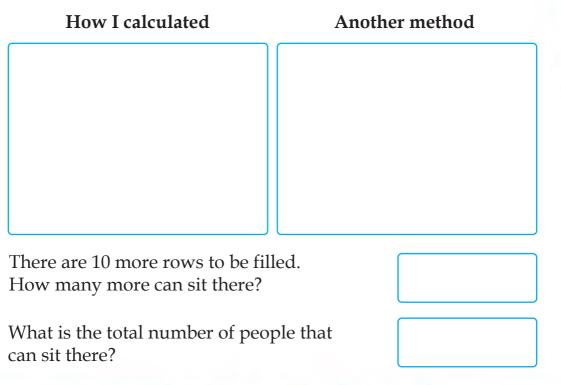


$$6+6+6 = 3 \times 6 =$$

How many can sit in the next six rows?



Children sat in these rows too. How many children would be there in all?



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# Multiply and fill up the table

×	1	2	3	4	5	6	7	8	9	10
1										
2						12				
3				12						
4			12							
5										
6		12								

# Add or multiply

1 + 1 = 2 $1 \times 1 = 1$ 2 + 3 = 5 $2 \times 3 = 6$ 2 + 3 + 4 = 9 $2 \times 3 \times 4 = 24$ 

Here we get different numbers on adding
and multiplying. Can you find numbers
which give the same answer on adding and multiplying?

Look at each and fill up the rest.

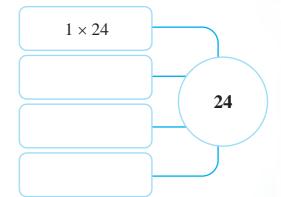
$2 \times 3 = 6$	2 × 4 =	$2 \times 5 =$	2 × 6 =
$4 \times 3 = 12$	4 × 4 =	4 × 5 =	4 × 6 =
8 × 3 = 24	8 × 4 =	8 × 5 =	8 × 6 =

What relations can you find out?

What numbers multiplied together give 12?

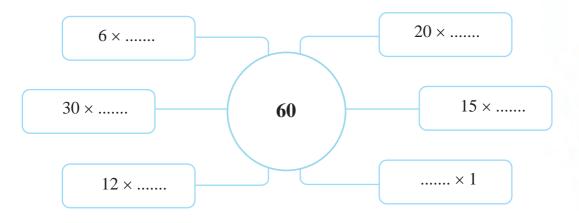
 $2 \times 6$ .....×1 12 .....× .....  $3 \times \ldots \times 2$ 

What numbers multiplied together give 24?



Can you write 20 like this?

# Fill up the cells





# **Evaluation activities**

1. Anu went to the supermarket. She wanted five pens. The price of one pen was 6 rupees and the price of a packet of 6 pens was 30 rupees. How much would Anu gain if she bought a packet?

### 2. Cricket match

- **A.** In a cricket match, one over means bowling six balls. How many balls does a team bowl in a twenty-twenty match?
- **B.** In a one day match, in which each team bowls 50 overs, how many balls are bowled in all?

### **3.** Who got more runs?

The table below shows the runs scored by Allen and his friend in a cricket match.

Allen			Friend		
2 sixers	2 × 6	12	4 sixers		
5 fours	$5 \times 4$		3 fours		
4 doubles	$4 \times 2$		2 doubles		
5 singles	5 × 1		2 singles		
Who got more runs ?			How many more?		

If all the balls in an over are hit for sixers, how many runs will they get?



# CONSTITUTION OF INDIA Part IV A

#### FUNDAMENTAL DUTIES OF CITIZENS

#### ARTICLE 51 A

Fundamental Duties- It shall be the duty of every citizen of India:

- (a) to abide by the Constitution and respect its ideals and institutions, the National Flag and the National Anthem;
- (b) to cherish and follow the noble ideals which inspired our national struggle for freedom;
- (c) to uphold and protect the sovereignty, unity and integrity of India;
- (d) to defend the country and render national service when called upon to do so;
- (e) to promote harmony and the spirit of common brotherhood amongst all the people of India transcending religious, linguistic and regional or sectional diversities; to renounce practices derogatory to the dignity of women;
- (f) to value and preserve the rich heritage of our composite culture;
- (g) to protect and improve the natural environment including forests, lakes, rivers, wild life and to have compassion for living creatures;
- (h) to develop the scientific temper, humanism and the spirit of inquiry and reform;
- (i) to safeguard public property and to abjure violence;
- (j) to strive towards excellence in all spheres of individual and collective activity so that the nation constantly rises to higher levels of endeavour and achievements;
- (k) who is a parent or guardian to provide opportunities for education to his child or, as the case may be, ward between age of six and fourteen years.

#### CHILDREN'S RIGHTS

#### Dear Children,

Wouldn't you like to know about your rights? Awareness about your rights will inspire and motivate you to ensure your protection and participation, thereby making social justice a reality. You may know that a commission for child rights is functioning in our state called the **Kerala State Commission for Protection of Child Rights**.

Let's see what your rights are:

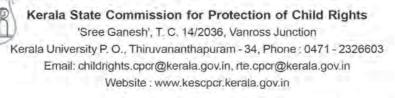
- Right to freedom of speech and expression.
- Right to life and liberty.
- Right to maximum survival and development.
- Right to be respected and accepted regardless of caste, creed and colour.
- Right to protection and care against physical, mental and sexual abuse.
- · Right to participation.
- Protection from child labour and hazardous work.
- Protection against child marriage.
- Right to know one's culture and live accordingly.

- Protection against neglect.
- Right to free and compulsory education.
- Right to learn, rest and leisure.
- Right to parental and societal care, and protection.

#### Major Responsibilities

- Protect school and public facilities.
- Observe punctuality in learning and activities of the school.
- Accept and respect school authorities, teachers, parents and fellow students.
- Readiness to accept and respect others regardless of caste, creed or colour.

#### Contact Address:



Child Helpline - 1098, Crime Stopper - 1090, Nirbhaya - 1800 425 1400 Kerala Police Helpline - 0471 - 3243000/44000/45000

Online R. T. E Monitoring : www.nireekshana.org.in