# Standard IV

# **MATHEMATICS**

**Part - 1** 



Government of Kerala Department of Education

State Council of Educational Research and Training (SCERT) 2016

# 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 name jage, 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 respect to my parents, teachers and all elders and treat everyone with courtesy.

I pledge my devotion to my country and my people. In their well-being and prosperity alone lies my happiness.

## **Prepared** by :

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Dear children, We have learnt many basic ideas Of Mathematics There is much more to learn Laughing and playing Drawing and do calculating And solving problems Let's learn Math Thinking, enquiring And finding out Let's go ahead...

> Dr.P.A.Fathima Director SCERT

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Wheel of Time......25 - 40





# Among Four Digit Number

# **Back to school**

Summer vacation is almost over. Reena and her father are at the school bazar.



- They bought an umbrella for 250 rupees, 5 notebooks at 10 rupees each and a dress for 700 rupees.
- ?

What is the total cost?



**?** Father has only 100 rupee notes with him. How

many notes should he give?



# Changing a note





# Let's help our friend

A friend in hospital. Each class decided to raise 1000 rupees. Details are given in the table. Fill in the amounts to be raised in the fourth day.

Class	First day	Second day	Third day	Total	Amount needed on the fourth day
IVA	310	490	100		
IV B	400	490	100		
IV C	410	290	250		
IV D	410	490	99		



# To get thousand



# Children's savings

Do you have any savings?

Reena and her friends deposit some money in a bank every month. See Reena's deposits from last September to March.

Can you fill in the missing figures.

- Total deposit
- In figures
- In words

Month	Deposit	Total
September	50	50
October	100	150
November	100	250
December	200	450
January	100	
February		750
March	100	)

• School started after summer vacation. Reena deposited 150 rupees in June

- Her savings till now
- In figures
- In words

# When hundreds are joined

- Manoj deposited 100 rupees every month, for six months from January. Complete the table of deposits.
- What is the total deposit up to June?

In figures	
In words	

Month	Deposit	Total		
Balance		1000		
January	100	1100		
February				
March				
April				
May				
June				

**2** If 100 rupees is deposited every month upto December, then what is the total amount?

# A Race

The 6 children for the hundred metre race are given, numbers starting with 1000 without break. Write these in order.



?

Five more children have joined the race. They must also be given numbers without breaks.







# **One-digit numbers**



# Card game

There are red, green, blue and yellow cards in a box. One draws eight cards from it without looking. The cards have different points.



After one round, 6 students got cards like this.

Name	Red	Green	Blue	Yellow	Point
Arun	1	3	2	2	
Mary	1	7	-	-	
Fathima	1	-	-	7	
Jaffer	1	-	2	5	
Usha	2	-	6	-	
Joy	2	-	-	6	



Who got the most points?





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Who got the least points?



Write the points from the smallest to the largest.



Me, about mysen	res	INO
I could find out the points each got		
I could find out the least and the most		
I could explain how I calculated the points		
I know how to add smaller numbers to 1000		



The table shows the points four children got in the card game. How many of each card did each get? Fill in the table.

Name	Point				
Achu	3140	3	1	4	0
Johny	2303				
Rani	3122				
Jaya	2006				

Achu got 3140 points from three thousands, one hundred and 4 tens, right?

?

How do we write 2303?





Abu, Johny and Balu bought

**Bicycles** 

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Babu bought a seat cover and a bell also. The total price was 4265 rupees. In what all ways can we write this number?



# In figures and words

4265	Four thousand two hundred sixty five
	three thousand six hundred twenty
	Three thousand thirty
3001	
5022	
6070	
	Seven thousand five hundred
9090	

1020, 1030, 1040, .....,

7070, 7080, 7090, .....,

2073, 2083, 2093, .....,

3940, 3960, 3980, ....., 4020, .....

**Complete the Patterns** 

2100, 2200,	2300,, ,, ,	
3300, 3200,	3100,, ,, ,	
5000, 5200,	5400,, ,,	•••••
6500, 6300,	6100,, ,, ,	•••••
8600, 8700,	8800,,	

# Do it in your head

	1 + 10 + 100 + 1000 =
	2+20+200+2000=
••••••	1 + 11 + 111 + 1111 =
••••••	2 + 22 + 222 + 2222 =
,	

Fill in the number



# The Roman way

In Roman Number System, the letters I, V, X, L, C, D, and M are used.

In Roman Number System 1 is denoted by 5 is denoted by

How do we write 4 in Roman Number System?

Four is shown by writing one on the left of five - IV

Six is shown by writing one on the right of V

Writing two I's on the right of V makes seven.

What about 8?	
---------------	--

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Ι	-	1
V	-	5
Х	-	10
L	-	50
С	-	100
D	-	500
М	-	1000
	V X L C D	V - X - L - C - D -

Award and year The list shows the names of writers who got Ezhuthachan award in various years. Write the years in order.

Year	Name
1993	Sooranad Kunjanpillai
	Thakazhi Sivasankara Pillai
	Balamaniamma
	Dr.K.M. George
	Ponkunnam Varkey
	M.P. Appan
	K.P. Narayana Pisharadi
	Pala Narayanan Nair
	O.V. Vijayan
	Kamala Surayya
Ta M	T. Padmanabhan
	Sukumar Azhikode
	S.Guptan Nair
	Kovilan
Nech	O.N.V.Kurup
	Akkitham Achuthan Namboodiri
	Sugathakumari
	Dr. M. Leelavati
	M.T. Vasudevan Nair
	Attoor Ravivarma
	Prof. M.K.Sanu
	Vishnu Narayanan Namboodiri

# **Admission Number**

In the new school, Meenu and her friends were given consecutive admission numbers. Write the numbers and complete the table



Admission Number	Name
3008	Meenu
	Jasna
	Remya
	Aparna
	Shamna
	Maya

- After them, 20 more children joined. What is the admission number of the last one ?
- ? After one month, the last admission number was 3049. How many new students joined?
  What should be

# World cup Football

World Cup Football tournament is held every four years. Write in order the years in which the tournament was held.

20

		6
Year	Country	
	Argentina	E.
	Spain	TT
	Mexico	M
1990	Itali	
	U.S.A.	
	France	
	South Korea, Japan	
	Germany	
	South Africa	
	Brazil	

added to 333 to

get 3333?





100<sup>th</sup> even number -

400 is the ..... <sup>th</sup> even number.

# Right and wrong

- A group of children wrote down some sets of consecutive numbers and the teacher copied these to the blackboard.
- Find the right and wrong patterns. Some of these are wrong. Find and correct them.

What I found

2006, 2007, 2008, 2009, 2010, 2011
3107, 3108, 3109, 4000, 4001, 4002
1097, 1098, 1099, 2000, 2001, 2002
4447, 4448, 4449, 4050, 4051, 4052
6636, 6637, 6638, 6639, 6640, 6641
8995, 8996, 8997, 8998, 8999, 9999
9095, 9096, 9097, 9098, 9099, 1000

 Right Patterns
 Corrected patterns

# Who are we?

- Between 2000 and 3000
- Odd number
- Digit in the tens place is 6
- Digits in the ones place and the hundreds place are the same

# ?

# Sujith's Car Number

- It is a four digit number
- The last digit is twice the first digit
- The second and the third digits are the same
- The number formed by the last two digits is twice the number formed by the first two digits

Fill in the missing numbers to form three consecutive numbers in each row.

2999,	3000,	3001
2098,	2099,	
5999,	,	6001
,	6199,	
,	4200,	
,	7000,	

# **Different numbers**

Without repeating, how many four digit numbers can be written using the digits 4,6,7,9? Try to write these numbers. What about the digits 3, 7, 0, 5

aroui	nd the sm	allest nur	nber.			
	4275,	4257,	4725,	4752,	4572	
	4762,	4726,	4672,	4267,	4276	
	4662,	4757,	4262,	4755,	4266	
	4247,	4772,	4727,	4277,	4272	
	4764,	4677,	4252,	4767,	4257	

Write the numbers in circles from smallest to largest.

Do you see any relation among these numbers?

Arrange the numbers in squares from largest the smallest.

# Small and Large

24

In each row, draw a circle around the largest number and a square around the smallest number.

# Wheel of the L In the Clock In the clock State of the stat

Let's mark the times of these programmes in the clock given below.







Me about myself	Yes	No
I understand what each hand of a clock shows		
I can say minutes and seconds by looking at the positions of the hands		
I know that a day is made up of 24 hours		
I know that 60 minutes make an hour		
I know that 60 seconds make a minute		

# Number race

The teacher held a contest of writing the numbers from 1 to 100. The names of the fastest six and their times in seconds are given below. Write these in minutes and seconds.

No	Name	Seconds	Minutes and Seconds
1.	Ajayan	95 seconds	1 minutes 35 seconds
2.	Anna	100 seconds	
3.	Jessy	110 seconds	
4.	Danish		2 minutes 5 seconds
5.	Sulekha		1 minutes 45 seconds
6.	Fasna		2 minutes



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Who would be the fastest five in your class in such a race? Find out.

How much time you would take to write up to 100?

Guess

Now actually try it.

The teacher will time you.

# **Real Race**

The names and times of some of the runners of the women's 800 metre race in the Asian Games 2014 at Incheon are given below.

No	Name	Time taken		
1.	Wang Mei	2 minutes 05 seconds		
2.	Sushma Devi	2 minutes 01 seconds		
3.	Genzeb Shumi	2 minutes 03 seconds		
4.	Lemmadi Rajaa	2 minutes 08 seconds		
5.	Tintu Lukka	1 minutes 59 seconds		
6.	Artigala Aberthana Gayanthika	2 minutes 06 seconds		

- Who among these took the least time to finish? What is the time?
- Who took the most? What is the time?
- Write all these times in order from the least to the most.

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• Write all these in seconds







# Rewriting

The table below shows the times some trains starts from various stations. Write these using am or pm.

<i>Train</i> Number	Name of the train	Starting time	am/pm
16307	Alappuzha - Kannur Express	14:55	
16042	Alappuzha - Chennai Express	16:00	
12977	Ernakulam - Ajmeer Marusagar Express	20:05	8:05 pm
16359	Ernakulam - Patna Express	23:00	
12625	Thiruvananthapuram-Delhi Kerala Express	11:15	一方标
16302	Thiruvananthapuram-Shornur Venadu Express	5:00	1

The timing of some buses are given below. Write them using 24 hour clock.

Route	Starting time	In 24 hour clock
Thiruvananthapuram - Ernakulam	11:15 am	
Thiruvananthapuram - Kozhikode	6:30 am	
Guruvayur - Kannur	1:40 pm	13:40
Kozhikode - Palakkad	3:45 pm	
Thrissur - Thiruvananthapuram	11:40 pm	
Alappuzha - Kozhikode	8:05 am	5





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# Circus

- ? Raju, the circus cyclist starts his act at 6:15 am and ends it at 9:30 pm. For how many hours does he ride?
- What are the details given?
- Times are given in the am/pm form
- How do we find the time of ride?
  - First look at the am part.
    - 6:15 am to 7 am 45 minutes
    - 7am to 12 noon 5 hours
    - Total time in this part 5 hours 45 minutes
      - Next the time in the pm part.
      - 12 noon to 9:30 pm
    - 9 hours 30 minutes

We can rewrite this like this:

6:15 am to 9:30 pm is







Time during  $pm \ge 9$  hours 30 minutes

14 hours 75 minutes

75 minutes means 1 hour 15 minutes



he time is more t 60 minutes, then change it to hours and minutes

34

14 hours hour 45 minutes 1 hours 45 minutes 15

There are

other ways.

Raju's circus ended their show in one town and travelled to another town. They started at 10:45 pm and reached the new place at 7:30 am. How much time did the journey took?





- A bus which started from Coimbatore at 20:30 reaches Kozhikode at 4:15, the next morning. What is the time taken for the trip?
  - How do we find it?
  - What are the details given?
  - Times are given as in the 24- hour clock.
  - How about changing them into am/pm.

to count by 1 hour from 10 : 30 pm

It is enough

- 22:30 means 10 : 30 pm.
  - 10 : 30 pm to 12 midnight 1 hour 30 minutes
  - 12 midnight to 4:15 am 4 hours 15 minutes.



- 1 hour 30 minutes
- 4 hour 15 minutes

A Super fast bus starting from Bangaluru at 22:15 reaches Kannur at 6:45, the next morning. How much time does the trip take?



- A sight seeing tour started at 9 one morning and reached a place they wanted to visit at 9, the next morning. How much time did the trip take?
- 2 Due to power shortage use of electricity was controlled for 14 hours from 8 am. At what time does the control end?

# Let's complete the table

Calculate time for various trips and fill in the table.

Train No.	Name of the Train	Departure	Arrival	Time of journey
16650	Nagercoil - Mangalore Express	4:20	20:25	
22607	Ernakulam - Bangalore Express	17:00	<b>4:20</b> Next day	
12623	Chennai - Thiruvananthapuram Mail	19:45	11:45 Next day	
16347	Thiruvananthapuram - Mangalore Express	20:40	<b>10:55</b> Next day	
12081	Kannur - Trivandrum Janasatabdi Express	4:45		9hours
56650	Kannur - Coimbatore Superfast	5:45		7 hours 40 minutes

Which train takes the most time for the journery? And the least?

# Calendar math

• What are the different kinds of years noted in the calender?

Saka varsha

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- Write the names of the months in these and the number of days in each.
- How many days are there in a year?
- Where are the dates of different years marked in a Calendar?
- Which day is January 1<sup>st</sup>, the next year?




Write the dates of other years

English Year	August 15	October 2	November 14
Saka Varsha			
Kolla Varsha			
Hijara Varsha			

- Find the months with 5 Sundays this year
- The 1<sup>st</sup> of a month is Wednesday. Which day is the 28<sup>th</sup>?
- How many months this year has 15<sup>th</sup> a Sunday? which day is the 1<sup>st</sup> of these months?

#### **Birth day**

- ? When is your birth day?
- In this year, which day of the week is your birthday?
- In this year, in which date of Kollavarsha is your birth day?

Find the birthday of the other members of your family and write below:

Sl.	Member	Date of birth	Day of the week	Kollavarsha
No.			this year	Month Date
1	Grand father			
2	Grand mother			
3	Father			
4				
5				

• A part of the calender for a month is shown here. What is the date in the square marked with a question mark?

?

16

#### 366 days

]	Fet	oru	ar	y 2	<b>01</b> 2	
<mark>SUN</mark> ഞായർ	MON തിങ്കൾ		<b>WED</b> ബുധൻ		<b>FRI</b> വെള്ളി	<b>SAT</b> ശനി
			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			

	Feb	ru	ary	y 2	<b>.01</b> 3	3
<mark>SUN</mark> ഞായർ			<b>WED</b> ബുധൻ		<b>FRI</b> വെള്ളി	<b>SAT</b> ശനി
					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		

	feb	ru	ary	<b>y</b> 2	2014	1
	MON തിങ്കൾ		<b>WED</b> ബുധൻ		<b>FRI</b> വെള്ളി	<b>SAT</b> ശനി
						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	

February 2015						
MON തിങ്കൾ				<b>FRI</b> വെള്ളി	<b>SAT</b> ശനി	
2	3	4	5	6	7	
9	10	11	12	13	14	
16	17	18	19	20	21	
23	24	25	26	27	28	
	MON றிகூൾ 2 9 16	MON         TUE           ©iliskik         autogi           2         3           9         10           16         17	MON mbbb db         TUE sangu milbord         WED singurð           2         3         4           9         10         11           16         17         18	MON mbbb d         TUE sang         WED migurd migurd migurd finite         THU algoes           2         3         4         5           9         10         11         12           16         17         18         19	MON millewide         TUE source auguige         WED millowide millowide auguige         THU source auguige         FRI source auguige           2         3         4         5         6           9         10         11         12         13           16         17         18         19         20	

February 2016						
SUN ഞായർ	MON തിങ്കൾ		<b>WED</b> ബുധൻ		<b>FRI</b> ରପ୍ରେହ୍ରୀ	<b>SAT</b> ശനി
	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					



• You saw the calender for 2016 February. Which is the next leap year? Make the calendar for February that year (February 1<sup>st</sup> 2020 is Saturday)



• Which year of Gandhiji's birth is this?

#### Let's find out:



- A clock fell down from Unnikuttan's hands and broke into three pieces. The sum of the number in each piece is the same. Can you draw it?
- Can you divide a clock into six parts, with the sum of the numbers in all parts the same?

SUN MON TUE WED THU

2 3

ചൊവ ബുധൻ വ്യാഴം

4 5

10 11 12

**15** 16 17 18 19 20 21

22 23 24 25 26 27 28

തിങ്കൾ

30 31

1

8 9

29

FRI

6

13 14

SAT

ശനി

7

#### **Calender Maths**

- What is the sum of the 9 numbers in this square?
- Draw another square like this and find the sum.
- Is there any easy way to find the sum?

40

11 12

- A part of a calender is show below. Find the missing dates.
- Add the three numbers across and also the three numbers down.
- Draw another cross like this and find the sums.
- Note anything?

		• Note anything?
 18	19	
	•	Nisha went to sleep at 9 night and did awake at 5 in the morning. How many hours did she slept?
	•	$28^{\text{th}}$ of a month is Wednesday. What day will be the $7^{\text{th}}$ of the same month?
	•	In 2013, February $1^{st}$ is a Friday. How many

Fridays will be in this month?

# Joining Thousands

#### To school again

First day at school! The PTA gives laddus to all children.



Heard what Anu and Sanu told the teacher ? How many laddus in all did they distribute?





#### School Diary

?

Diaries are brought in 3 packets. Number of diaries in each packet is written on it.

#### P How many in all?

Can you pack 1000 diaries into three boxes in a different way?

 $(\dots + \dots + \dots + \dots = 1000)$ 

How about your friend?



- Sanu also packed diaries in 3 boxes. Each box has between 325 and 340 diaries. One possible way to do this is
- Pack the diaries into any number of boxes, with the same number in all boxes. Can you do it?



## Suppose 1000 diaries are to be packed

in 4 boxes.Write one way of doing this.



Vegetable Garden

For making a vegetable garden children gave 1232 rupees and teachers gave 1425 rupees. How much in all ?





#### Drinking Water

The PTA gave the Noon Meal Committee large vessels worth 3485 rupees to store boiled water and stainless steel buckets worth 2145 rupees to store food. How much was spent in all?

Cost of Vessels	HONG BERNELLER			
Cost of buckets				
Total				
	5 thousands 5	hundreds	12 tens	10 ones
	5 thousands 6	hundreds	1 3 tens	1 0 ones
	5 thousands 6	hundreds	3 tens	0 ones

	Thousand	Hundred	Ten	One		
We can write this	3 2 5	(1) 4 1 6	(1) 8 4 (1) 3	5 5 1 0	+	Do in your head $1500 + 1500 = \dots$ $2500 + 2500 = \dots$ $3500 + 3500 = \dots$ $1250 + 1250 = \dots$ $1450 + 1450 = \dots$
shor	thand	11 3485 2145 5630	+		I	

#### To the Bank

The school raised some money for the Education Aid Fund. It was decided to deposit it in a bank.





#### Notebooks

The *Nanma* Club in school distributed, 2345 unruled notebooks and 4678 ruled notebooks.

How many in all?

• How do we find it? Just add 2345 and 4678



7010 + 13

7023

2345 + 4678 2345 = 2000 + 300 + 40 + 5 4678 = 4000 + 600 + 70 + 8 6000 + 900 + 110 + 13 6000 + 900 + 110 + 13 7023

2300 4600 6900	+	78	6900 123 7023		2340 4670 7010	+	8	 _
				I				

2345 +		1 1 1
4678		2 3 4 5 +
13	$(1)_{1}(1)_{1}(1)_{1}$	4678
110	2 3 4 5 +	7023
900	4 6 7 8	
6000	700203	
7023		



**Chairs and Tables** 

The school bought new chairs for 2980 rupees and tables for 6420 rupees. How much was spent in all?

M

How do we find this?

For adding 2980 and 6420. Isn't it easier to add 3000 and 6400?

How my frends did it

#### Noon meal

How i did it

Under the Noon Meal Programme, the school got 1850 kilograms of rice in July and 2050 kilograms in August. How much did they get in these two months together?

5999 +Achu rewrote the 1875 problem and found the Ş answer 6000 + 1874 7874 999 + 99 ? 4867 + 997

#### Savings

Anu deposited 1400 rupees in June and 1650 rupees in July. Her friend Sanu deposited 175 rupees more than Anu in June and 75 rupees less in July. Find the total deposits of Anu and Sanu. Who deposited more?

How do we do this?

- •
- •

Write the numbers from 1 to 8 in the squares. But squares that touch should not contain consecutive numbers.



Me, about myself	Yes	No
I understood the steps to solve the problem.		
I understood how I can easily calculate the second deposit.		
I have made sure that I have done it right.		
I can explain the method of getting the answer and the operations with numbers.		

#### Sale

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Day	Sale
Monday	2040 rupees
Tuesday	865 rupees
Wednesday	2025 rupees
Thursday	1890 rupees
Friday	2400 rupees

See one week's sale at the school store.

- P How much did they get in the first two days of the week?
- P How much in the last two days of the week?
- ? How much in the whole week?
- ? On which day did they get the most?
- ? Write the amounts from smallest to greatest

#### Lunch

The school buys vegetables for making children's lunch. 2725 rupees was spent in June for this and 675 rupees more in August. The amount spent in July is 175 less than the amount in August. The amount in September is 275 more than the amount in June.

- ? How much was spent in each of these four months?
- ? In which month was it most? And the least?
- ? How much was spent in all four months together?

#### **Rice distribution**

For *Onam,* 5 killogram of rice will be given to each child.



- How much rice is brought?
   5000 kilograms was distributed in two days. 1000 kilograms more was given on the second day than on the first.
- ? How much was given each day?

#### Milk distribution

- - 1221, 1332, 1443, 1554, ....., .....,
  - 1221, 2332, 3443, 4554, ....., .....,

Write four different number patterns starting with 4325

Construct a magic square using the numbers

1054, 3390, 2806, 1638, 3098, 2514, 1930, 1346, 2222

2222	

50

Do it in head

450 + 475 = 450 + 450 + 25

Last week 4704

Two 450 and one 25 gives = 925

$$1500 + 1525 = ?$$
  
 $2500 + 2547 = ?$ 

$$1250 + 1270 = ?$$

1450 + 1350 = ?

#### Magic Square

- In this magic square, one number is incorrect. Find that number
- Add the numbers across, down and from corner to corner.

4150	1875	3500
2525	3175	3825
4850	4475	2200

#### Cloth Exhibition



What is the minimum amount needed to buy one dress of each kind?

#### **Buy** Three

Sarang has 8000 rupees with him.



#### Deposit

The bank deposits of Babu, Nafiya and Johny are 1420 rupees, 1580 rupees and 1605 rupees. Sithara's deposit is half the sum of the deposits of Babu and Nafiya.

Bindhu's deposit is 120 rupees more than the sum of the deposits of Johny and Nafiya

Thahira's deposit is equal to the sum of the deposits of Sithara and Bindhu.

What is the deposit of Thahira ?

Based on these, make some questions to ask your friend.

• Whose deposit is the least?

- •

Large and Small

The sum of the largest two digit number and the largest one digit number.

99 + 9 = .....

The sum of the largest three digit number and largest two digit number

The sum of the largest four digit number and the largest three number

..... + ..... =

..... + ..... = .....

The sum of the largest two digit number and the smallest two digit number

99 + 10 = 109

The sum of the largest three digit number and the smallest three digit number

 $999 + 100 = \dots$ 

The sum of largest four digit number and the smallest four digit number

..... + ..... = .....

#### **Development** Fund

The members of the PTA raised some money for the School Development Fund, in 5 groups. The third group got 600 rupees more than the first group and 400 rupees more than the second group. The fifth group got 550 rupees more than the fourth group and the third group got 200 rupees less than the fourth group. The fouth group got 4200 rupees. Find the amount raised by each group. What is the total amount raised for the development fund?

#### Do in your head

• 3747 + 2836 = 6583

Do the sums below in head.

- 3749 + 2834 = ?
- 3749 + 2839 = ?
- 3746 + 2834 = ?
- 3746 + 2839 = ?
- 5469 + 2537 = 8006
  - 5437 + 2569 = ?
  - 5539 + 2467 = ?
  - 2569 + 5437 = ?

#### **Onam** Sales

54



A game for two players. The first player puts a counter on an empty square and moves to the next square, left, right, up or down (but not diagonally) should not move to an empty square or a square already visited. The score is the sum of the numbers on the squares visited. The one with highest score wins.

Shall we

make a

table?

Kudumbashree had 3 stalls in the four day Onam Fair. The first stall got Rs.3405, Rs.3528, Rs.3780, Rs.3500. The second stall got Rs.2966, Rs.3600, Rs.4250 and Rs.3497. The third stall got Rs.2998, Rs.3570, Rs.4306 and Rs.3100.

- Which stall got the most, taking all four days together?
- Which day got the most, taking all three stalls together?

# More and Less

#### How far?

Children of Poomala school are on a trip to Thiruvananthapuram; 496 Kilometres away. They reached kozhikode, travelling 85 kilometres.



P How much more they need to travel, to reach Thiruvananthapuram?

They had their lunch at Ernakulam. By then, they had travelled 188 kilometres from Kozhikode.

**?** How much further to Thiruvananthapruam?

They returned through kottayam. The distance to Poomala by this route is 502 kilometres. The distance from Thiruvananthapuram to Kottayam is 151 kilometres.

Poomala?

#### Cost of food

They had decided to spent 8540 rupees on food for the three day trip. They spent 2326 rupees on food on the first day.

P How much more can they spent on food?



300 +

300 +

800 +

+ 1100 +

40

110 +

40

70 +

+

+

4

4

4

0

Nor 300 from 100

56

2870 rupees left.

3000

5000

3000

2000

+

+

+

Thousands	Hundreds	Tens	Ones
	1	10	
6	121	1	4
3	3	4	4

Thousands	Hundreds	Tens	Ones
6	1	11	4
3	3	4	4

Thousands	Hundreds	Tens	Ones		
5	10				
61	1	11	4	-	
3	3	4	4		

Thousands	Hundreds	Tens	Ones
5	11	11	4
3	3	4	4
2	8	7	0

#### Easy Way

How about doing all these together?

5	11	11			6214 -
61	2	1	4	-	3344
3	3	4	4		2870
2	8	7	0		

2870 rupees left on the third day.



**?** On the third day, they spent 3000 rupees on food. How much more did they spend on food than expected?

Only 2870 rupees was left for food. They spent 3000 rupees.

How much more is 3000 than 2870?

30 added to 2870, gives 2900

What should be added to 2900 to get 3000?



Like this, subtract 3407 from 5000.

#### How many students?

?

58

2 Last year, Poomala School had 1248 children. This year, 98 left the school and 125 others joined. How many are there in the school, this year?



The admission number of the first student who joined in class 1 this year is 3946 and the admission number of the last student is 4007. How many students are now in class 1?

Do we get this by subtracting 3946 from 4007? Why not?

#### We can plant the sandalwoods in the My tree school and the rest we can distribute among Poomala school got 1042 saplings under the children. the My Tree programme. Of these, 342 were teak, 167 mango, 257 mahogany, 8 sandalwood and the rest jackfruit. How many saplings were distributed to ? the children? How many jackfruit saplings did they ? get? After three months 68 saplings distributed ? to the children withered and died. How many are left? How I did it. How my friends did it. about mysel

wie, about mysen	105	
I understood what is to be found out		
I knew how to do it		
Able to do calculation in head		
Did computations correctly		

Amal's class got some children's Day stamps. On Monday 18 children bought stamps and on Tuesday 12 children bought stamps.

How many stamps were left after Monday?

Let's look at it this way.

How many stamps were bought in all?

How many are left?

Which method is easier?

#### **Total Amount**

- Amal's father is a labourer and he could find work only on Monday, Wednesday, Friday and Saturday last week. He got 650 rupees on Monday and 750 rupees on Saturday. He got the same amount on Wednesday and Friday. Altogether, he earned 2750 rupees.
- P How much did he get on Wednesday and Friday together?

?

How much did he get on each of these days?

#### Milk Math

?

- Amal's family started to sell milk to the society from September. They got 3340 rupees on September, 4265 rupees on October and 3768 rupees on November. How much did they get on these three months together?
- ? How much more in September than October?
- ? How much less in November than October?
- What difference is between the amounts made on September and November?



Cattle feed and other expenses amounted to 2004 rupees in September, 2770 rupees in October and 2070 rupees in November. How much money did they actually make each month?

> Make questions like these to ask your friends.

60

Father was born in 1976 and son in year2005What is the difference between

- What is the difference between their ages?
- What are their ages now?

Ask other members of you family about their ages. From this, can't you find the years they were born?

#### Labha prabha

In Amal's home, the electricity meter showed 1866 units at the end of February and 2165 units at the end of March.

? How many units did they use in March?

They decided to join the '*Labha* prabha' scheme and reduce electricity usage. At the end of April, the meter showed 2402 units.



- 2 Could they reduce usage by joining Labha prabha?
- **?** By how many units?



- Amal's father and mother got into a bus to the town. Fare is 18 rupees for each. Father gave the conductor a 100 rupee note. Conductor first gave back 2 tworupee coins and said 40; then he gave 3 twenty-rupee notes and said 100.
- P How do you explain this?

#### I also can!

- Find out the electricity meter readings in your home and your friends' homes, at the end of this month and at the end of the next month. Calculate how many units are used in each house.
- In whose home is the usage the least?
- Think about the ways to reduce electricity use. Carry out these plans with the help of your friends.

7634 – 5326

One of the numbers is the answer. Can you find out which, without actual subtraction?

3506, 2405, 2308, 708

#### Family Budget

See Amal's household budget for October. Fill in the missing numbers.

Income	Rs.	Expense	Rs.
Agriculture selling	4735	Food	XX
milk	4265	Travel	500
	Л	Electricity	400
		Telephone	330
		Cloths	460
		Entertainment,	Д
		Newspaper, Magazine	480
11 Alexan		Education	325
	-1	Health	400
Total	KK	Total	7445

**?** What is the difference between income and expense?

Make your own household budget for one month like this.

#### Let's do

- The price of a new Mobile phone is 3450 rupees. The old one is sold for 780 rupees. How much more is needed to buy the new phone?
  - Anamala School has LP, UP and highschool classes and there are 2060 children in all. There are 358 children in the LP classes and 449 children in UP classes.
- How many children are there in high school classes?
- How many more children are there in the high school classes than in the UP classes?

Which of the following gives	2407 -	2407 –
2550? • 7200 - 4750	<u> </u>	<u>1539</u> 978
<ul> <li>6300 - 3750</li> <li>5800 - 3650</li> </ul>	Without actual subtr which answer is corr	action, can we say

- The price of a TV is 6780 rupees and that of a DVD player is 2490 rupees. Bought together, the price is reduced by 1390 rupees. How much is needed to buy them both?
- The Anamala ward has 1780 people. There are 80 more women than men. Find the number of women and men.

653

252

6006 -	13 added to 3987 gives 4000, 2000 added to 4000 gives 6000. 6 added to 6000 gives 6006
3987	
	2000 + 13 + 6 = 2019

0 -	2500 subtracted from 6500
Ŭ	gives 4000 20 subtracted from
0	30 gives 10.

4000 + 10 = 4010Are there other ways to find these?

Do in your head
5982 - 3694 = 2288
5980 - 3694 =
5982 - 3692 =
5980 - 3692 =
How did you do them?

 Multiplication and Subtraction

  $(2 \times 2) - (1 \times 1) = 3$ 
 $(3 \times 3) - (2 \times 2) = 5$ 
 $(4 \times 4) - (3 \times 3) = 7$ 
 $(9 \times 9) - (8 \times 8) = \dots$ 

#### Complete the Number Wheel

Fill in the missing numbers. The inner number subtracted from the outer number should be 4023.



#### Budget

Ramu is a farmer. Looking up the expenses for the past four years, he says,

"Last year's expense was 1439 less than this year's. Year before that, it was 2496 rupees

less than that of last year. First year's expense was 4429 rupees less than this year's. This year, I spent 9827 rupees."

- What is the total expense in all four years together?
- ? What is the least amount spent?

#### Help the beetle

The beetle can't drink the honey from one of the flowers. It is the flower whose number is not the difference of any pair of numbers in the middle. Find that flower.



#### Income and Expense

64

See the monthly budget of Shiji Teacher last month

,		
Item	Estimated expense	Actual expense
	(rupees)	(rupees)
Food	5400	4896
Cloth, Travel, Medicine, Celebrations	2625	2980
Telephone, Electricity, TV,		
Newspaper, Internet	2075	1948
Others	2500	3075

- Is the actual expense for the month more or less than the estimated expense?
- Which are the things for which the actual expense is more than the estimated expense? How much more?
- Which are the things for which the actual expense is less than the estimated expense? How much less?





The picture shows an art form. Do you know what this is called?

Do you see any geometrical shapes you are familiar with?

Colour all triangles red.

Colour the circles and rectangles as you like, to make a pretty picture.



AND DESCRIPTION OF



#### Side and Corner

68

Anju and her friends are making greeting cards for the Teacher's Day.



**?** How do you cut a thick sheet of paper to make rectangular greeting card?



You can use this to check corners.

• Lengths of the four sides of the card I made



• Lengths of the sides of the cards my friends made

Name	Sides of card			
	cm	cm	cm	cm

• Who all made cards with all the properties of a rectangle?

#### Make and find

Cut out several *eerkkil* pieces of lengths 10 centimetres, 8 centimetres, 6 centimetres and 5 centimetres. Make four sided figures with sides of lengths given below.

1	10 cm,	8 cm,	10 cm,	8 cm.
2	10 cm,	6 cm,	6 cm,	5 cm.
3	8 cm,	6 cm,	6 cm,	8 cm.
4	5 cm,	5 cm,	10cm,	8 cm.
5	6 cm,	10 cm,	10 cm,	6 cm.
7	8 cm,	8 cm,	8 cm,	8 cm.

Which of these are not rectangles? Why?



Look around you and find rectangular, triangular and circular objects. Write them down.

Object	Shape
Coin	Circle
Black board	
•	
·	The second
• 6/11	LAN A
• •	The service
• 717	

#### Paddy field



80 cm

Kuttappan has a rectangular paddy field. Each day, he walks around the field and inspects it. How many metres does he walk in one trip around?







#### Fencing a garden

Wire fences are to be put around the rectangle gardens in the school - the rectangular okra patch the square spinach patch



72



7 metre



4 metre



side.



Children are making rectangles with matchsticks. Each has 20 matchsticks. What can be the lengths and breadths of these rectangles?

Group	Length wise	<b>Breadth wise</b>	Total
1	8 + 8 = 16	2 + 2 = 4	20
2	+ = 10		
3			
4			
5			





#### Wire rectangle

?

- Annie has a piece of wire 24 centimetre long. She wants to make a rectangle with this. What are possible length and breadth?
  - If she makes a square, what is the length of its side?



Draw dots like this and make new patterns.



Colour the picture on the right, using the same colours as in the left



Colour these pictures in different ways







### Some shapes



Have you seen such shapes?

Write the things you know, of these shapes.

	Rectangular block	Sphere	
	•	•	
	•	•	
	•	•	
Hov	v many		_
?	How many rectangles in a	ll in	
	the picture?		
?	How many triangles in this	picture?	
Eerk	ckil figures		Δ
		ow many <i>eerkkil</i> bits in the st rectangle?	
?	How many <i>eerkkil</i> bits in th	e second figure?	
?	To make a figure of 3 rectation we need?	ngles, how many <i>eerkkil</i> bits	do
		77	





### Looking back

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Learning outcomes	On My Own	With teacher's help	Must imporve
<ul> <li>Lesson 1: Among Four Digit Numbers</li> <li>To write consecutive numbers, starting from a specified number (up to 10000)</li> <li>To write and read four-digit numbers</li> <li>To interpret four-digit numbers according to context</li> <li>To split and develop four-digit numbers according to place value</li> <li>To explain the method of comparing four digit numbers</li> <li>To write the numbers using a specified number of digits, with or without repetition</li> <li>To find out and explain the scheme of number patterns</li> <li>To solve practical problems invloving four-digit numbers</li> </ul>			
<ul> <li>Lesson 2: Wheel of Time</li> <li>To explain the relations between hours, minutes and seconds</li> <li>To tell time by a clock or watch</li> <li>To convert 24-hour clock to 12-hour clock and the other way round</li> <li>To tell time in am/pm</li> <li>To solve practical problems involving time</li> <li>To understand and make conclusion from time tables</li> <li>To estimate lengths of time</li> <li>To write dates of the Common Era in the date/ month/year form</li> <li>To find out and write dates in Saka Era, Hijra Era and Kollavarsha from a calendar</li> <li>To draw a timeline</li> </ul>			

Lesson 3: Joining Thousands         • To solve practical problems involving addition         • To explain methods of solution         • To do calculations in head         • To tabulate data, as a part of solving problems         • To explain schemes of forming number patterns         • To explain schemes of forming number patterns         • To explain schemes of forming number patterns         • To estimate the result of calculations         Lesson 4: More and Less         • To solve practical problems involving subtraction         • To explain methods of solutions         • To explain methods of checking the correctness of solutions         • To do calculations in head         • To tabulate data, as a part of solving problems         • To do calculations in head         • To tabulate data, as a part of solving problems         • To acclaulations in head         • To tabulate data, as a part of solving problems         • To tabulate data, as a part of solving problems         • To explain schemes of forming number patterns         • To explain schemes of forming number patterns         • To explain schemes of forming number patterns         • To recognize shapes such as rectangles, triangles and circles from the surroundings         • To draw circles using circular objects         • To draw rectangles and triangles, of no specified measures <th>Learning outcomes</th> <th>On My Own</th> <th>With teacher's help</th> <th>Must imporve</th>	Learning outcomes	On My Own	With teacher's help	Must imporve
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