

Mathematics

Part - 2

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
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**The icon below is used in this
textbook for convenience**



Let's do problems



THE CONSTITUTION OF INDIA

PREAMBLE

WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a ¹**[SOVEREIGN SOCIALIST SECULAR DEMOCRATIC REPUBLIC]** and to secure to all its citizens :

JUSTICE, social, economic and political;

LIBERTY of thought, expression, belief, faith and worship;

EQUALITY of status and of opportunity; and to promote among them all

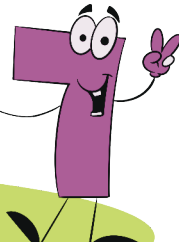
FRATERNITY assuring the dignity of the individual and the ²[unity and integrity of the Nation];

IN OUR CONSTITUENT ASSEMBLY this twenty-sixth day of November, 1949 do **HEREBY ADOPT, ENACT AND GIVE TO OURSELVES THIS CONSTITUTION.**

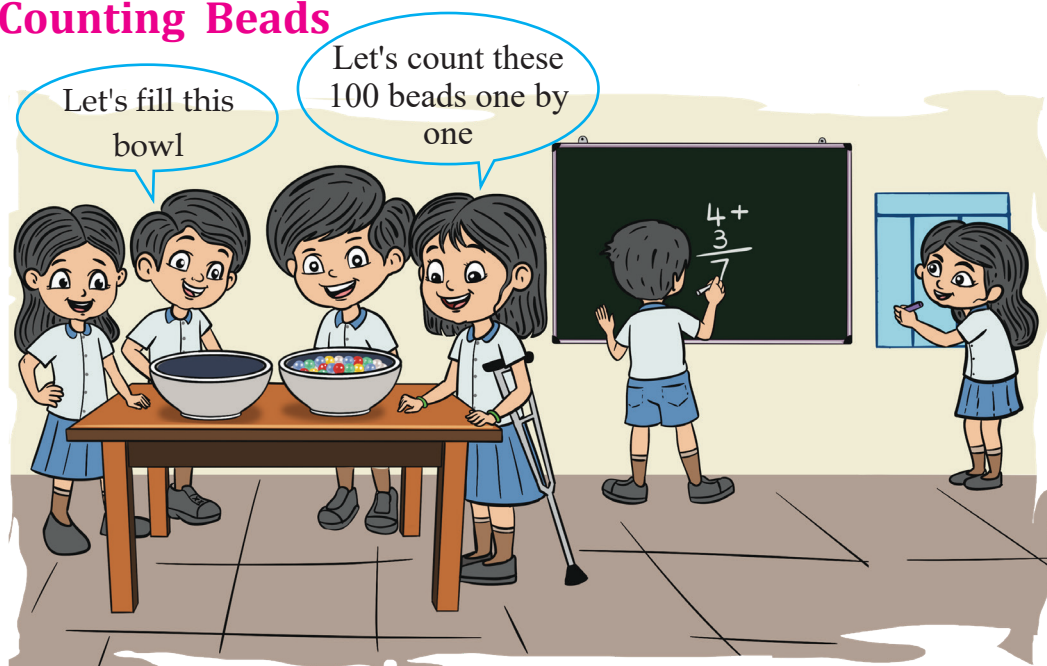
-
1. Subs. by the Constitution (Forty-second Amendment) Act, 1976, Sec.2, for "Sovereign Democratic Republic" (w.e.f. 3.1.1977)
 2. Subs. by the Constitution (Forty-second Amendment) Act, 1976, Sec.2, for "Unity of the Nation" (w.e.f. 3.1.1977)

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ADD OR
SUBTRACT?



Counting Beads



Finished the bead game?

Let's fill up this table:

Number	Number of beads in hand	Number of beads needed to make 100
1	90	
2	75	
3		20
4	50	
5		1
6		12
7	33	

How I calculated:

Removing Beads

Each kid brought 100 beads for the game. The beads brought by 10 of them were put in a bowl.

How many beads are there in the bowl?

The teacher removed one bead from the bowl.

How many beads are there in the bowl now?

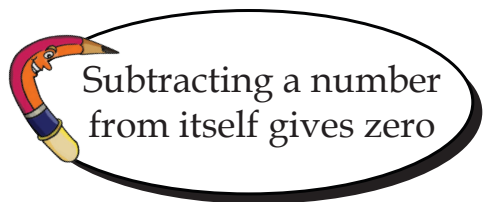
How did you calculate?



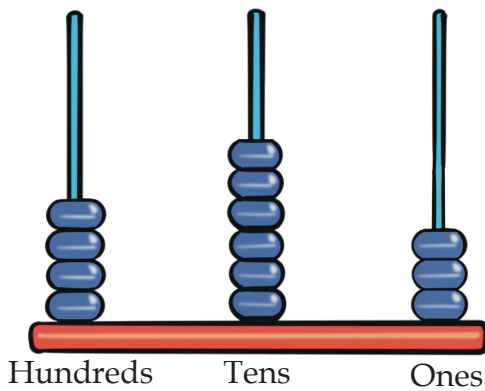
From these 999 beads, the teacher gave 111 to each group. Write how many were left each time.

$$\begin{array}{rcl}
 999 & - & 111 & = & 888 \\
 888 & - & 111 & = & \text{-----} \\
 \text{-----} & - & 111 & = & \text{-----} \\
 \text{-----} & - & \text{-----} & = & \text{-----} \\
 \text{-----} & - & \text{-----} & = & \text{-----} \\
 \text{-----} & - & \text{-----} & = & \text{-----} \\
 \text{-----} & - & \text{-----} & = & \text{-----} \\
 \text{-----} & - & \text{-----} & = & \text{-----} \\
 \text{-----} & - & \text{-----} & = & 0
 \end{array}$$

How many groups got the beads?



When Place Changes

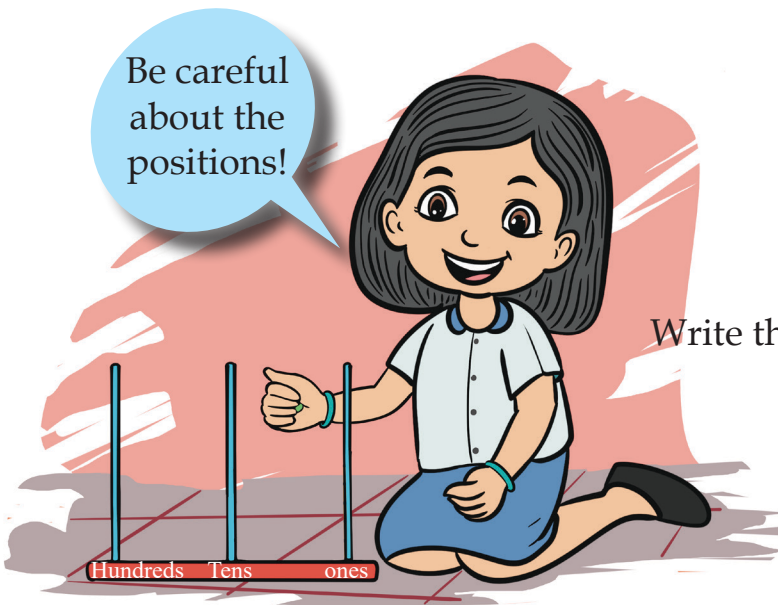


What's the number on the abacus?

To make it 231, which beads should be removed?

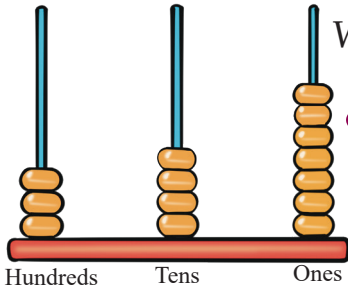
Put the beads in this abacus.

Be careful about the positions!



Write the number you got.

Numbers on the Abacus



What's the number on the abacus?

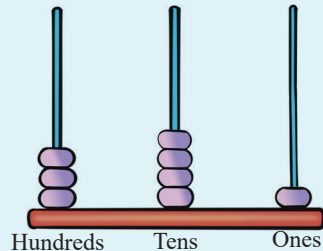
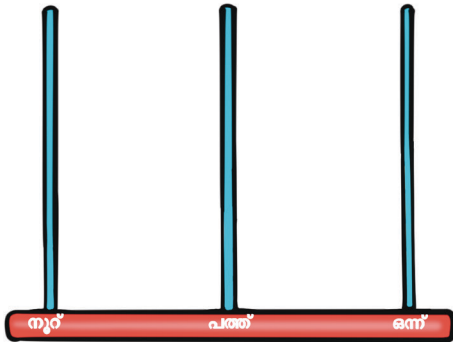
- If we remove one bead from the hundreds place, what number do we get?

- Now remove two beads from the ten's place. Which number do you get?

- Suppose we remove four beads from the one's place, what number do we get?

How does the abacus look now?

Draw the beads...



Take the bead from one's place and put it in the ten's place.

What's the number now?

Let's write down all that we did.

First number : $300 + 40 + 7 = 347$

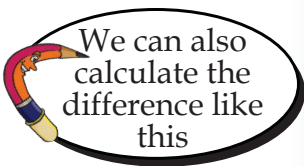
Number we changed : $100 + 20 + 4 = 124$

Number we got : $200 + 20 + 3 = 223$

$$347 - 100 = 247$$

$$247 - 20 = 227$$

$$227 - 4 = 223$$



Hundred	Ten	One
3	4	7
1	2	4
2	2	3

What's Left?

Teacher had 578 rupees with her. She bought some beads from the school store to make an abacus.

She gave 4 hundred rupee notes, 6 ten-rupee notes and 5 one-rupee notes. How much does she have now?

The amount she gave

Balance amount



$$578 - 465 = 113$$

Am I right?

$$465 + 113 = 578$$

Yes, indeed!



Buying An Abacus

Isha bought an abacus for 125 rupees from the school store. She gave 150 rupees. Which notes did she give?

How much did she get back from the store?

How did you calculate?

Method (1)

$$125 + 5 = 130 \text{ (First she gave 5 rupees)}$$

$$130 + 20 = 150 \text{ (Next, 20 rupees)}$$

$$5 + 20 = 25 \text{ (She gave 25 rupees in total)}$$

Method (2)

$$150 - 125$$

$$150 - 1 = 149$$

$$149 - 125 = 24$$

$$24 + 1 = 25$$

Method (3)

$$150 - 125$$

$$150 - 1 = 149$$

$$125 - 1 = 124$$

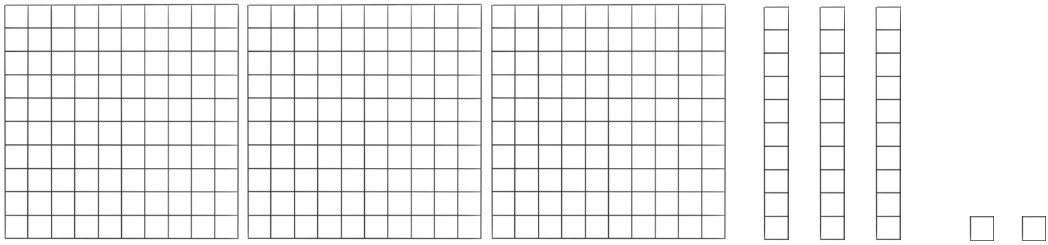
$$149 - 124 = 25$$

Method (4)

Number	Hundred	Ten	One
150	1	4	10
125	1	2	5
		2	5

Let's Remove

See the pictures:



How many hundreds are here?

How many
tens?

How many
ones?

What's the number?

Let's remove 212 squares from this.

In the remaining:

How many
hundreds?

How many
tens?

How many
ones?

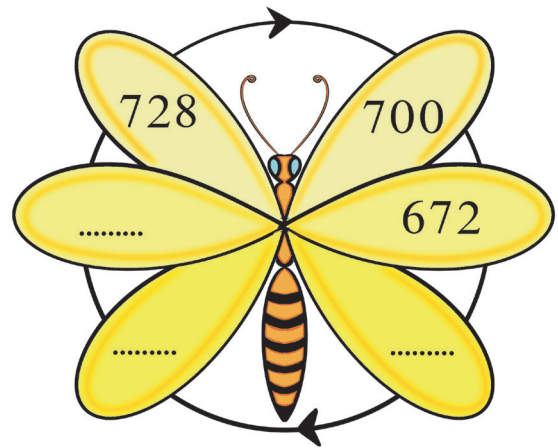
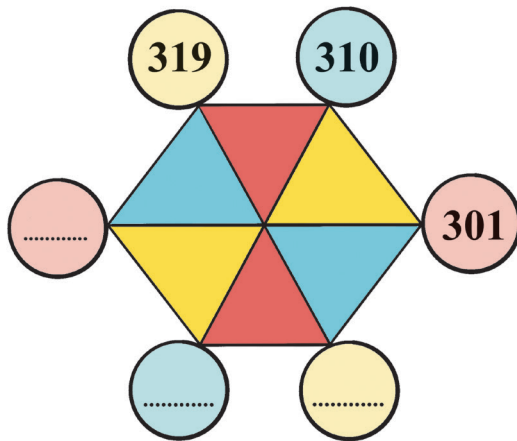
What's the
number?

$$332 - 212 =$$

Can you subtract 116 from 338 like this?

How did you calculate? Write your method here.

What Next?

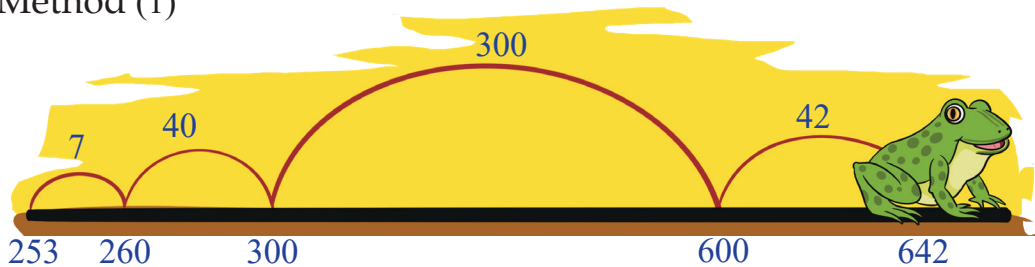


Add or Subtract?

The school society got 642 rupees in two days. 253 rupees was got on the first day. How much did they get on the second day?

In what all ways can we calculate?

Method (1)



$$7 + 40 + 300 + 42 = 389$$

Method (2)

$$\begin{aligned} 253 + 47 &= 300 \\ 300 + 342 &= 642 \\ 342 + 47 &= 389 \end{aligned}$$

Method (3)

Number	Hundred	Ten	One
642	5	13	12
253	2	5	3
	3	8	9

What's the Price?

Susha had 572 rupees with her.

After buying some beads and an abacus, she had 394 rupees left.

What's the price of beads and abacus?

What I understood from the question:

What I must do to calculate the answer:

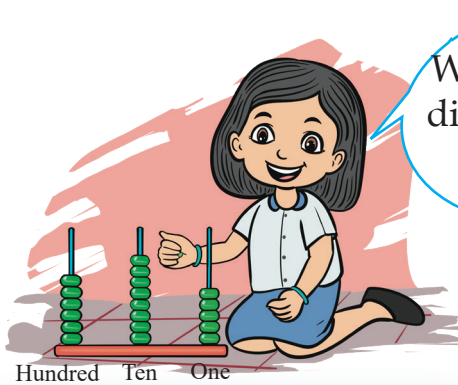
My method:

Answer I got

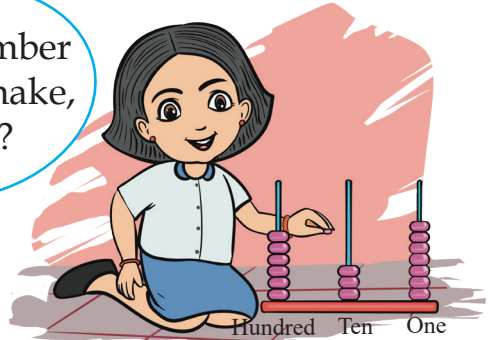
Friends' method:

What's the Difference?

Isha and susha are playing with their abacuses.



What number did you make, Susha?



	Number on the abacus
Isha	
Susha	

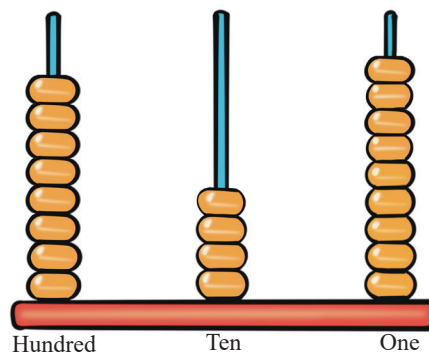
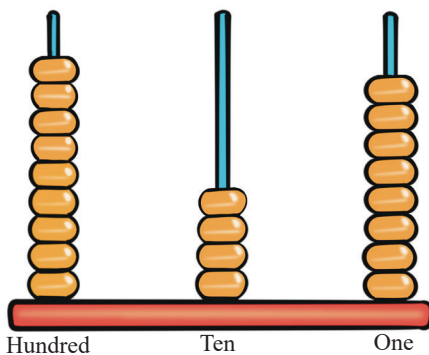
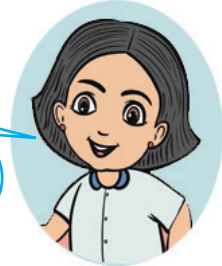
Who made the larger number?

What's the difference of the numbers?



My number is 948

I changed it to 849



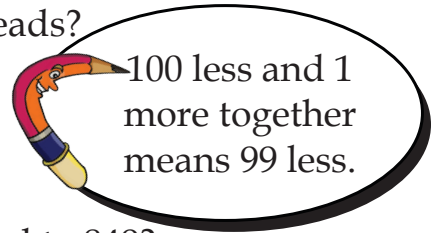
Look at the abacus

What are the changes in the number of beads?

Hundred : 1 less

Ten : No change

One : 1 more



What's the difference, when 948 is changed to 849?

See the other pairs they have found.

Can you calculate the differences?

635, 536

423, 324

746, 647

Look at the answers.

What did you find out?

What about these pairs? What is the difference?

896, 698

634, 436

What did you find out?

Big Numbers and Small Numbers

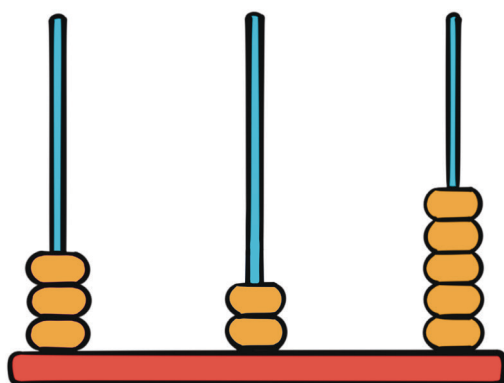
- Write three consecutive digits.
- Using all the three write the largest and the smallest numbers without repetition.
- Calculate their difference.

Digits	Largest Number	Smallest number	Difference
1, 2, 3	321	123	
2, 3, 4			
3,,			
.....,, 6			
.....,,			
6,,			

Look at the difference

What did you find out?

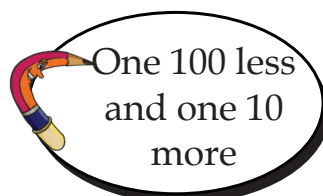
Changing Positions



What's the number on the abacus?

Take one bead from the hundred's place and put it in the ten's place

What's the number now?



What's the difference of the two numbers?

Write how you calculated

A Trip

Isha's family is getting ready for a trip. They went to a shop to buy bags.



Price of blue bag

Price of red bag

How much more is the price of the red bag?

How I calculated

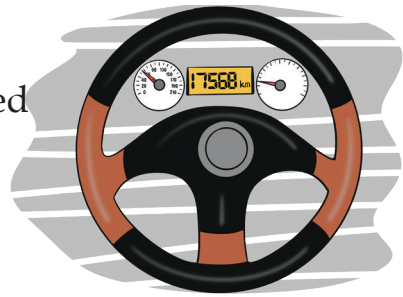
How my friends' calculated

To Madakara

They started the next day. They travelled in a car. Isha wrote down the last three digits of the meter at the start.

Isha wrote

568



After 19 kilometres, they saw a sign board.

What is the distance from Isha's home to Madakara?

After some time, they saw another sign board.

How far did they travel?

Write the last three digits of the meter when they reached Madakara.

Madakara
147 km

Madakara
98 km

What I understood from the question:

How I calculated:

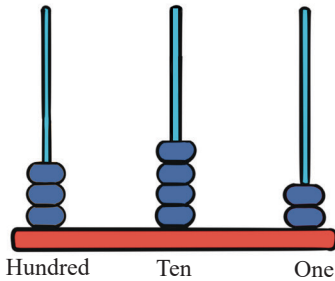
They went to a hotel for lunch. Her mother paid the bill. It was 578 rupees. Earlier, she had spent 175 rupees on tea and snacks. She had 968 rupees when they started. How much does she have now?

How I calculated:



Assessment

1. Let's Draw an Abacus



To make the number 101, how many beads must we remove?

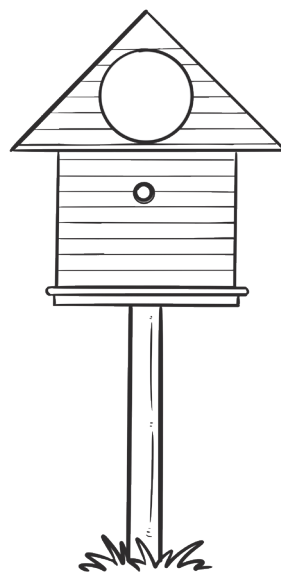
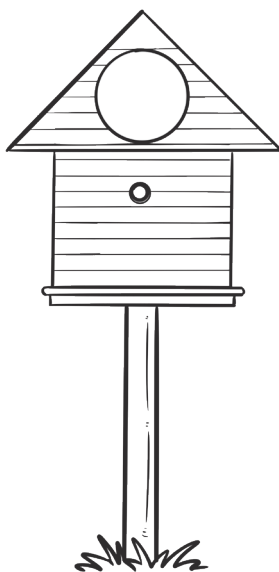
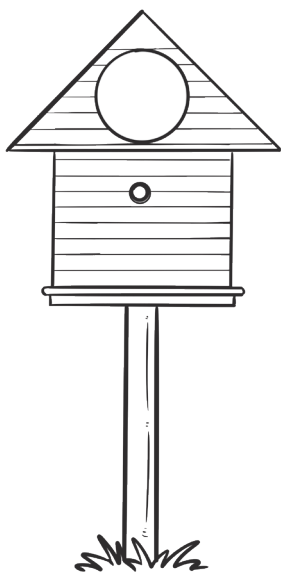
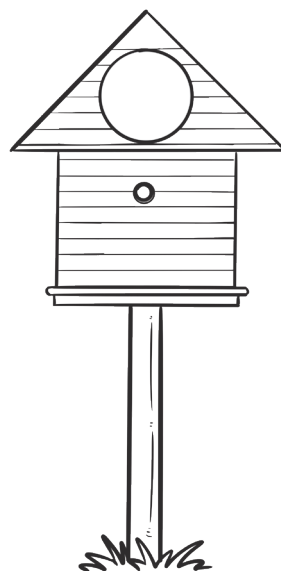
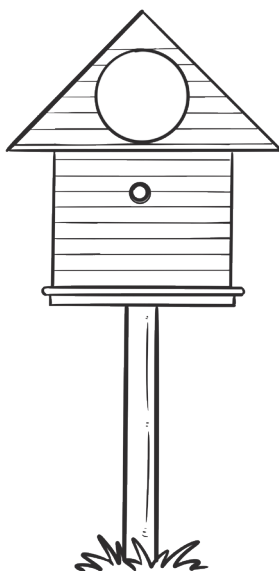
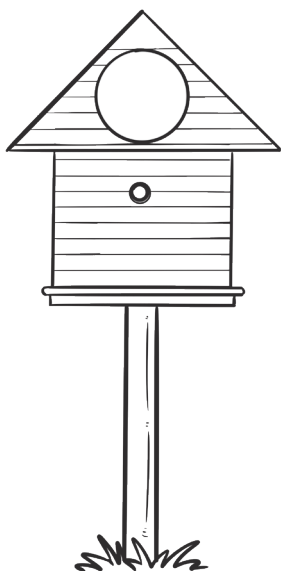
Hundred

Ten

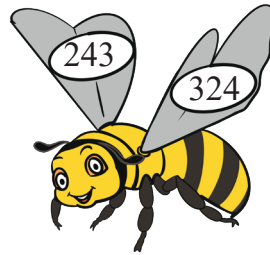
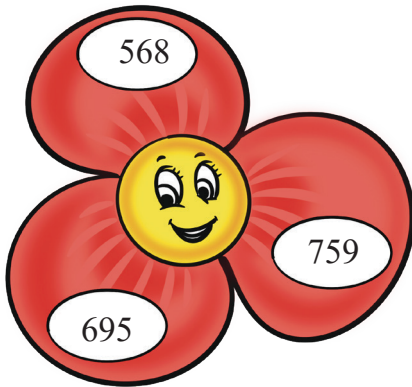
One

Draw an abacus showing 101

2. Beehives



Can you help the queen bee to find her hive?



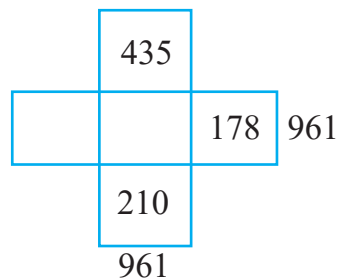
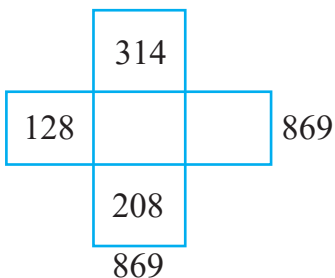
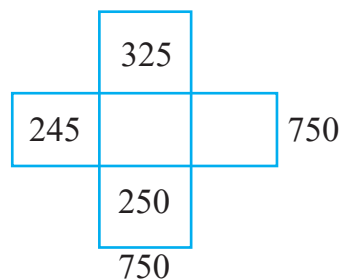
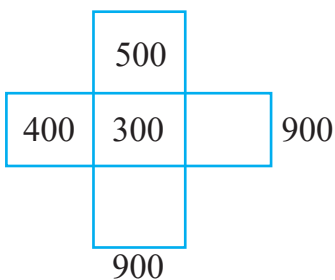
To find the hive

- ✿ Subtract each number on the bee from each number on the flower.
- ✿ Write the answers on the hives, from the smallest to the largest.
- ✿ Find the hive and colour it.

Queen bee's hive

- Sum of digits is 10
- One digit repeated

3. Add to Subtract



4. Calculate and Fill the Cells

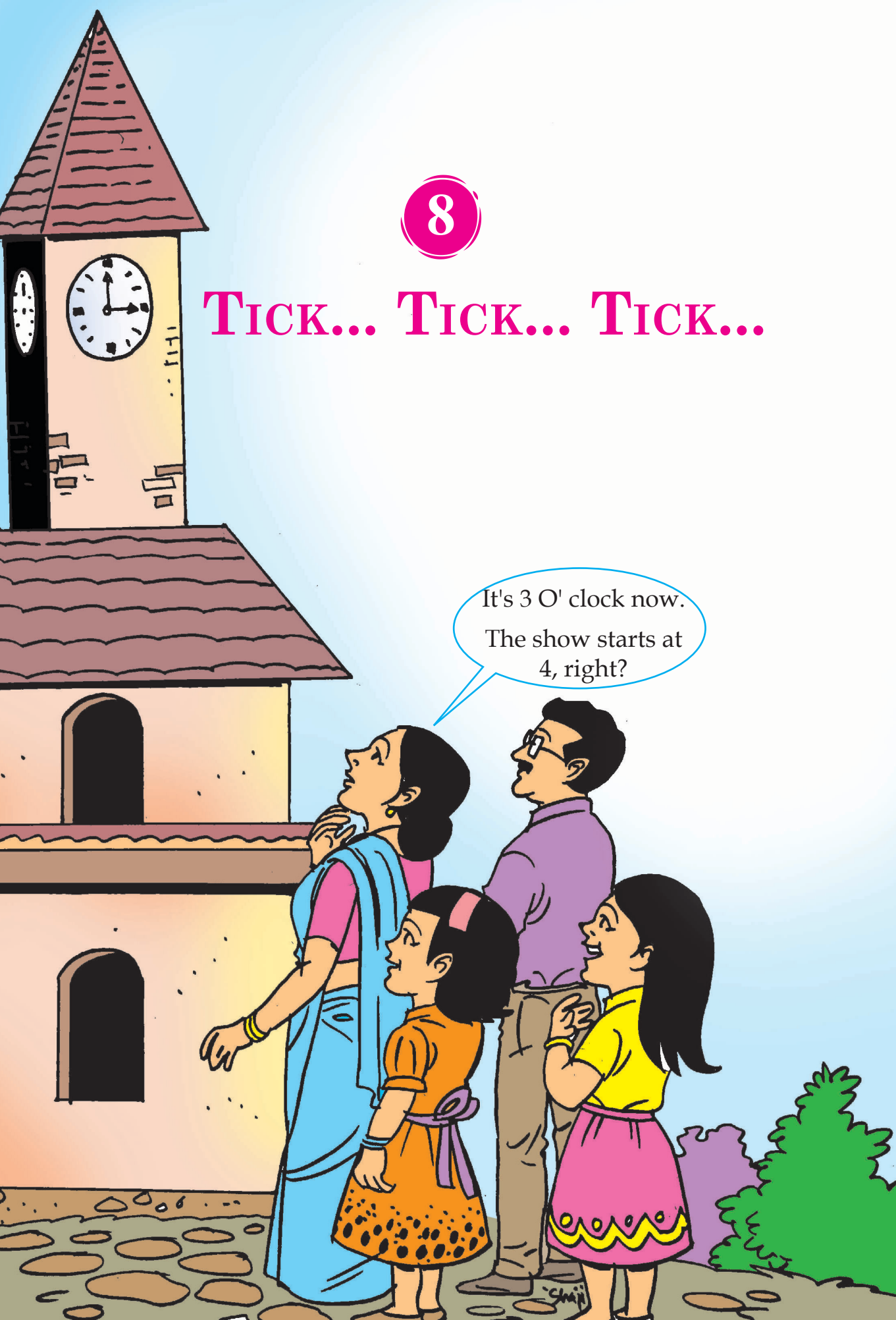
①	②	③
④	⑤	⑥
⑦	⑧	⑨

1. 4 subtracted from 300
2. 12 added to 200
3. $136 + 136$
4. 264 subtracted from 500
5. $100 + 160$
6. $400 - 116$
7. $399 - 151$
8. 8 added to 300
9. $524 - 300$

Filled the Cells?

- ❖ Add the three numbers in the first row.
- ❖ Add the three numbers in the second row.
- ❖ What if we add the three numbers in the first column?
- ❖ Any peculiarity in the sums?
- ❖ Check the other rows and columns.
- ❖ Are all the sums the same?
- ❖ Can you make other squares like this?

TICK... TICK... TICK...



It's 3 O' clock now.
The show starts at
4, right?

To the Circus Tent



See the circus tent? Look at the show time.

- What time do the shows start on a weekday?
- At what times are the special shows on holidays?
- How many shows are there on a holidays?
- Write all the show times on a holiday, in the correct order.

Act out

What are the activities that you do daily? At what times do you do them ?

- | | | | |
|----------------------------|----------------------|----------------|----------------------|
| • Waking up in the morning | <input type="text"/> | • | <input type="text"/> |
| • Brushing teeth | <input type="text"/> | • | <input type="text"/> |
| • | <input type="text"/> | • | <input type="text"/> |
| • Going to school | <input type="text"/> | • Going to bed | <input type="text"/> |

Enact the activities you do at each of the times given below:

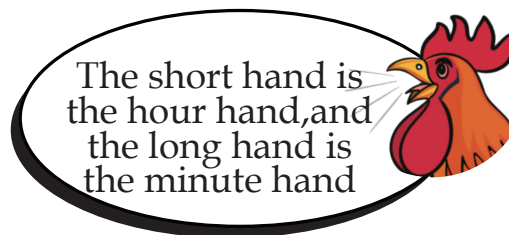
- 6 in the morning
- 1 in the afternoon
- 7 in the morning
- 4 in the evening
- 10 in the morning
- 9 in the night

What's the Time?

The clock shows the time when Tanvi's class started.

The hour hand is at 10 and the minute hand is at 12

The time is 10 O' clock.



Visiting Grandma



Tanvi, aren't we visiting grandma tomorrow?
Must get up early!



Great!
We can see grandma
tomorrow!

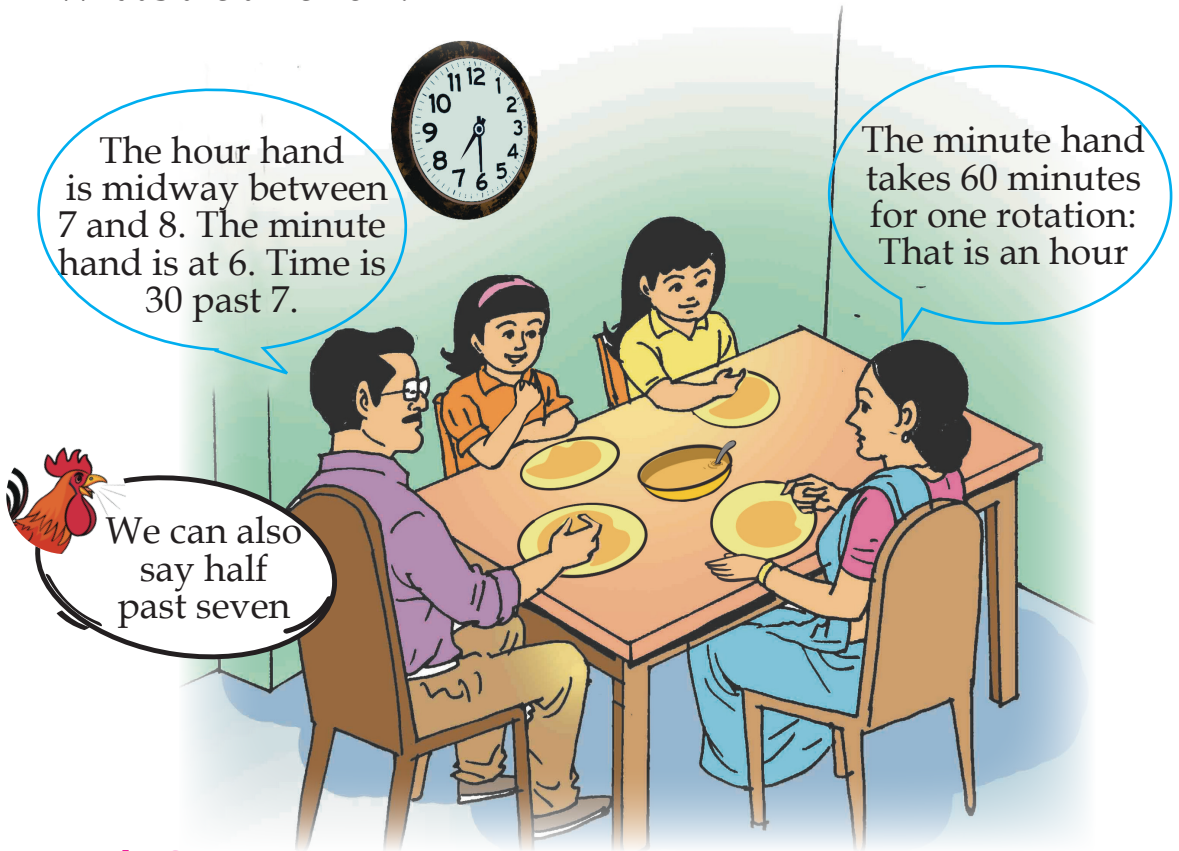
Tanvi woke up early.

The time when Tanvi woke up



Breakfast Time

What's the time now?



Let's Start



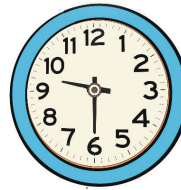
It's almost time for the bus. We won't be late, if we start early.



The time when Tanvi started from home.

At Grandma's

See at what time Tanvi reached grandma's house.

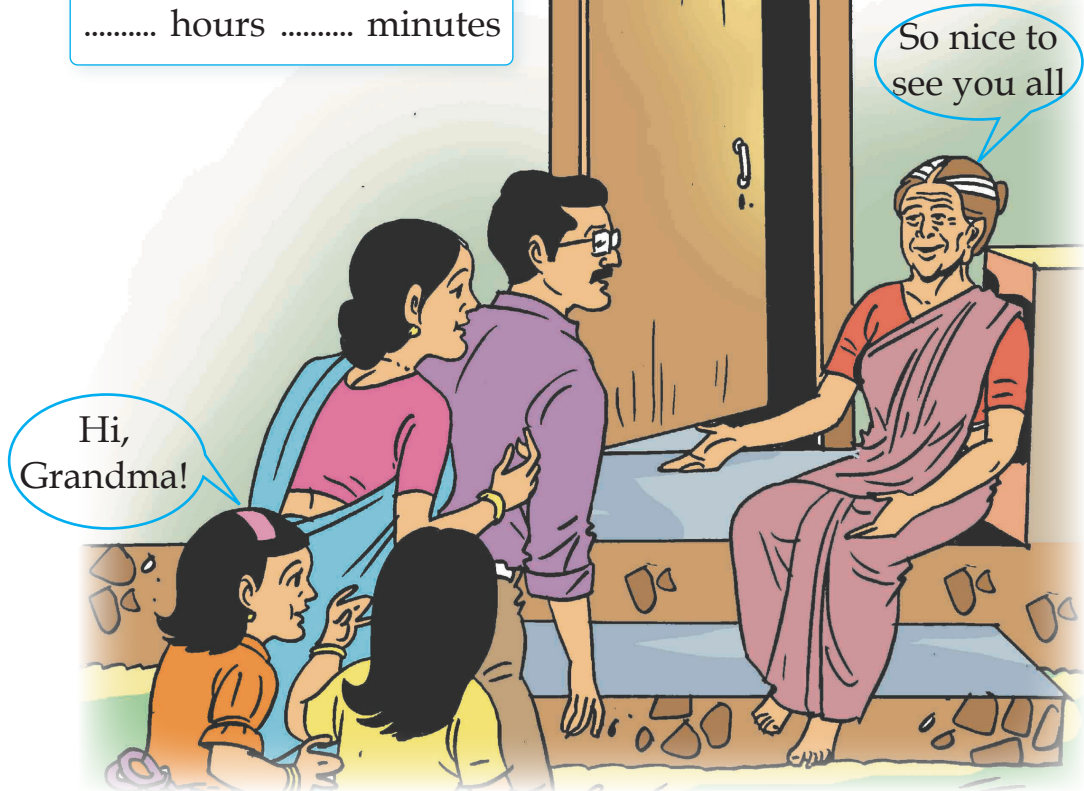


We can also say half past nine.

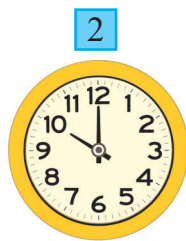
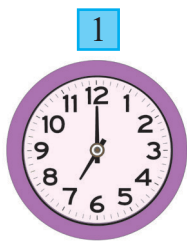


Write down the time.

..... hours minutes



Match the clocks and the times



A
3 O' clock

B
11 O' clock

C
7 O' clock

D
10 O' clock

E
5 O' clock

1 - C

2 -

3 -

4 -

5 -

Complete the table:

	Hour hand	Minute hand	Time
	At 11	At 12	11
			
			
			

Look at the time and draw the hands:

6 O' clock



5:30



8 O' clock



1:30



At the Park

Tanvi is now at the park.

What is the time?

..... hours minutes



The clock shows the time Tanvi left the park.

The Hour hand
is past 6 and the
Minute hand
is at 3.



Time is 15
p ast 6.



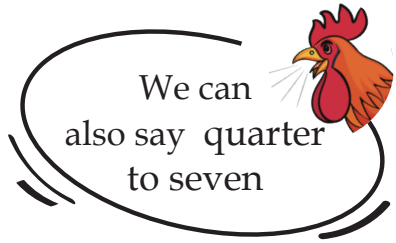
We can
also say
quarter p ast 6



Look at the time Tanvi returned to grandma's from the park



The Hour hand is
past 6 and near 7.
The Minute hand is
at 9.
What's the time?
45 past 6.



Draw hands on the clock and write the times below.

10:30



Half past ten

10:45



Quarter to 11

11:15



Quarter past 11

11:45



.....

12:15



.....

12:30



.....

My School

Tanvi went to school the next day

Time now

Draw the hands in the clock to show this time.



The class started half an hour after Tanvi reached school.

The time when the class started

.....

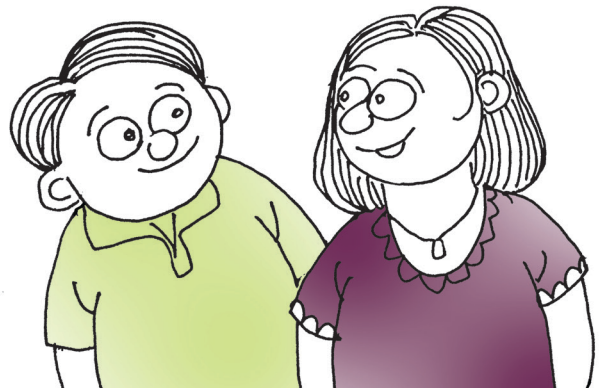
Write the time as shown by a digital clock.

Draw the hands in the clock to show the time, fifteen minutes after the class started.



Our math teacher is smart.

So is his watch



Aditya -L1

See the news Tanvi read in the newspaper

Aditya -L1 is the space craft launched by ISRO to study the sun.

It was launched on
2 September, 2023.

Mark this day on the calendar

- How many days are there from September 5 to September 23?

Yesterday... Today... Tomorrow...

1198 2023 സെപ്തംബർ 1945 ദുര്യോധനം - ആദ്യം 1445 നവം - വൃശ്ചികം						
ഞായർ	തിങ്കൾ	ചൊവ്വ	ബുധൻ	വ്യാഴം	വെള്ളി	ശനി
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
നാളികണ്ഠം, ശുക്രനക്ഷത്രം						
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	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	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	1
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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	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15</	

Birthday

Mark your birthday on this year's calendar.

Write your birthday and your friends' birthdays on a chart paper and display it in your class.

Look at the Calendar and Find the Answers

- In which month does a year start?

- Which day of the week is the first of January this year?

- Which day of the week is January 31?

Complete the list

Sunday, Monday,,,
.....,,

- Which day of the week is August 15 this year?

- December 22 is the National Mathematics Day. Mark it on the calendar.

- Write the names of the months in the correct order.



Assessment

1. The Clock and its Hands

Draw the hands on each clock to show the time given below each picture.



1:00



9:45



2:30



9:15

2. Months

Look at the number of days in each month and write the answers to the questions below.

- Which are the months with only 30 days?

- Which are the months with 31 days?

3. Calendar

Look at the calendar and write the answers

- Which year's calendar is this?

- Which is the month?

JANUARY 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			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	

- How many days does this month have?

- What is the month before it ?

- Which day of the week is the last day of that month?

- Which day of the week is the first day of this month?

- What are the dates of this month which are Sundays?

- Which day of the week are the dates 1, 8, 15, 22, 29?

- Which is the next month?

- What day of the week is the first of next month?

- If the day after tomorrow is a Saturday, which day of the week was yesterday?

- Mark our Republic Day on the calendar.

9

ADDING AGAIN AND AGAIN

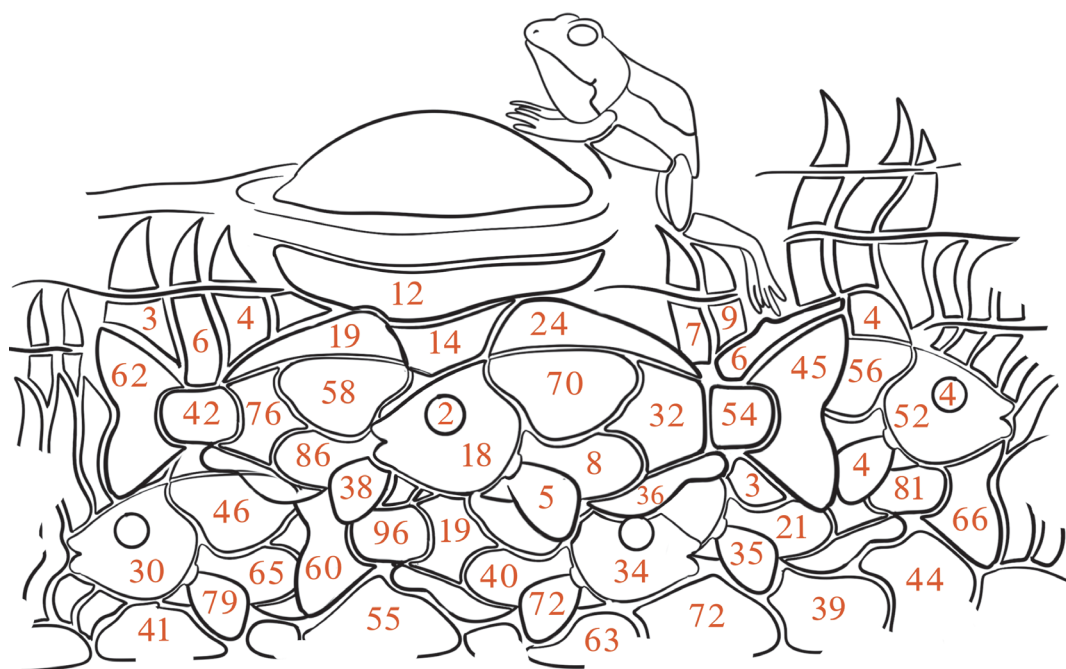


- Match the boxes.

3×2	10
16	4×2
5×2	7×2
8	6×4
14	8×2
18	9
3×3	6
24	9×2

Note: An arrow points from the box containing 3×2 to the box containing 6.

Who is hiding?



8×4

5×1

6×3

1×2

6×4

4×2

7×10

6×6

9×5

9×6

- Do these multiplications.
- Colour the parts which have the answers.
- Find out who is hiding.

Can You Find out?

How many trees?....

How many birds?...

If one bird sits on each tree, one bird will be left. If two birds sit on each tree, one tree will be left. How many trees? How many birds?



How Many are We?

We can sit in groups of 2. And we can sit in groups of 3 also. We are less than 10. How many are we?

Sharing Sweetness

It is Meenu's birthday. She brought *payasam* for class 3 in 4 trays with 7 cups in each tray.



How many kids can be served?

$$\dots + \dots + \dots + \dots = 4 \times \dots = \dots$$

When she brought two more trays, two cups were left over. How many kids in class 3 were given *payasam*?

How I calculated:

Another way:

Fill up the blanks

$$3 \times 7 = 21$$

$$4 \times 7 = 28$$

$$6 \times 7 = --$$

$$10 \times 7 = --$$

How many trays of *payasam* were brought?

How many cups of *payasam* were there in each tray?

How many cups of *payasam* were there in all?

The number of children in class 3

To Class Two

10 trays were needed to give *payasam* to children of class 2.
How many children are there in class 2?

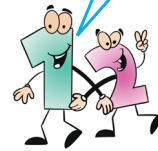
How I calculated

							
							
							
							
4 times 7 cups $4 \times 7 = 28$							

Songs of Weeks

Seven days in a row,
Make one week, you know.
Can you tell me now
How many days make two?
Oh yes! Oh yes!
We can tell
Fourteen days in all.

7 trays, with 4 cups
of *payasam* on each.
How many cups are
there in all?



			
			
			
			
			
			
			
7 times 4 cups $7 \times 4 = 28$			

Thanal Kudumbasree



Thanal Kudumbasree unit makes umbrellas. Meenus' mother is a member of this unit. She got an order for 11 umbrellas. Each umbrella must have 8 ribs. She has enough ribs to make 3 umbrellas.

How many ribs does she have at home?

$$\dots + \dots + \dots = \dots \times \dots = \dots$$

Meenu went with her mother to buy ribs for the remaining 8 umbrellas. How many ribs are needed?

How many ribs are needed for 11 umbrellas?

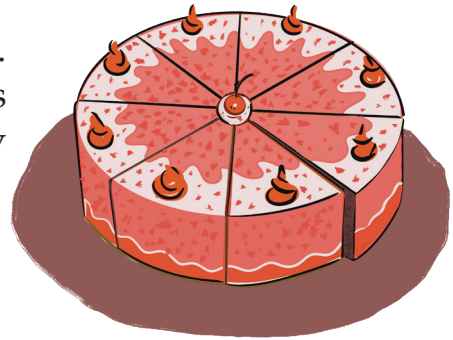
How I calculated:

How my friend calculated:

Calculate the answers and write in your notebook...

- The price of one packet of crayons is 8 rupees. How much is needed to buy 6 packets?
- Meenu's school needs 8 paper cutters. The price of one is 7 rupees. How much money is needed?

- A cake can be cut into 8 pieces. 5 cakes were bought and cut as shown in the picture. How many pieces are there ?



- Didn't you see the picture of the chess board on the page 127?

How many squares have pieces on them? How many squares does the chess board have?

- A ship to Vizhinjam port, carrying a crane from China took 3 weeks to make the trip. How many days did it travel?

- Fill in the empty cells:

1	2	3	4		6	7		9	10
8	16			40			64		

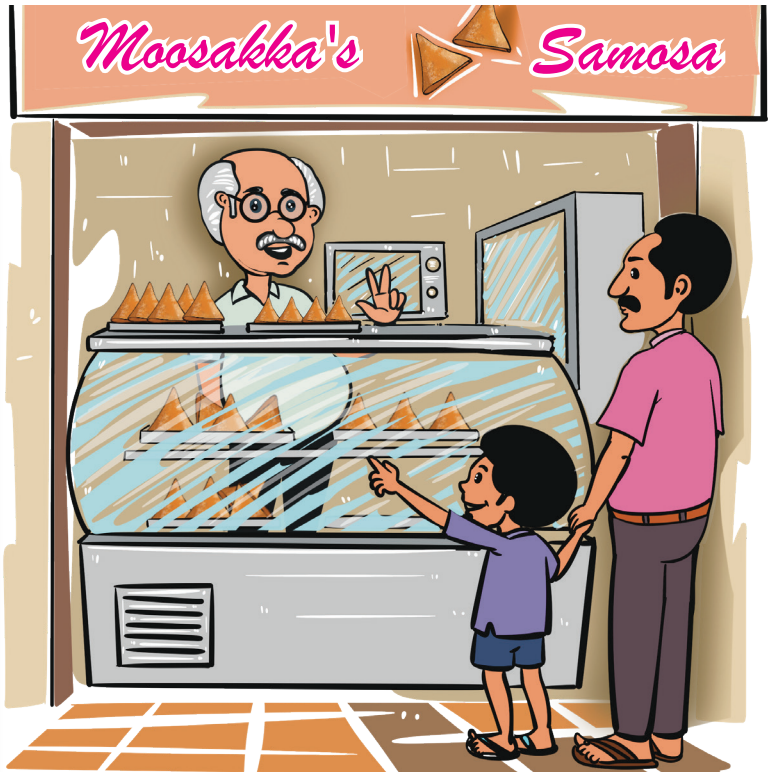
1	2	3	4	5			8	9	10
7					42	49			

Selling Samosa

Meenu's father and brother went to buy samosas for those making umbrellas.

The price of a samosa is 9 rupees. Her father bought 8. How much should he pay?

How I calculated:



$$3 \times 9 = \dots\dots$$

$$5 \times 9 = \dots\dots$$

$$7 \times 9 = \dots\dots$$

$$9 \times 9 = \dots\dots$$

Two 9's make	$2 \times 9 = 18$
Four 9's make	
Six 9's make	
	$8 \times 9 = \dots\dots\dots$
	$10 \times 9 = 90$
	$50 \times 9 = \dots\dots\dots$
	$100 \times 9 = \dots\dots\dots$

Multiply and Play

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

Draw cells like this in your note book and write the answers.

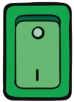
- Write the products in the coloured cells here:

- Write the products in the eighth row here. Is there anything special about them?

Switch on the Lights!

See Meenu's project for the math fair.

Calculate the product below each switch and fill the bulb showing this number with the same colour as the switch. Join the switch and the bulb.

					
					
3×9	5×5	7×3	6×6	9×9	6×8

Cricket Match

- Meenu's sister hit 11 sixers (6 runs) and 15 boundaries (4 runs). How many runs did she get from these?

How I calculated:

$$15 \times 1 = 15$$

$$15 \times 2 = 30$$

$$15 \times 3 = 45$$

$$15 \times 4 = 60$$

$$15 \times 5 = 75$$

Runs from sixers

$$10 \text{ times } 6 = 60$$

$$1 \text{ times } 6 = 6$$

$$11 \text{ times } 6 = 66$$

Runs from
boundaries

$$\dots\dots \text{ times } 4 = \dots\dots$$

$$\dots\dots\dots = \dots\dots$$

$$\dots\dots\dots = \dots\dots$$

Calculate
without
multiplying

$$29 \times 8 =$$

$$30 \times 8 = 240$$

$$31 \times 8 =$$

$$50 \times 5 =$$

$$51 \times 5 = 255$$

$$52 \times 5 =$$

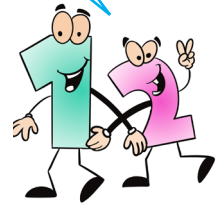
Price of Bangles

The price of a dozen bangles is 25 rupees. Meenu bought 4 dozen red bangles and 3 dozen blue. What is the total price?

How I calculated:

Another way:

One dozen
means 12



Complete the tables:

$1 \times 6 = 6$

$2 \times 6 = 12$

$\dots\dots = \dots\dots$

$\dots\dots = \dots\dots$

$\dots\dots = \dots\dots$

$\dots\dots = \dots\dots$

$\dots\dots = \dots\dots$

$\dots\dots = \dots\dots$

$\dots\dots = \dots\dots$

$10 \times 6 = 60$

$20 \times 6 = 120$

$\dots\dots = \dots\dots$

$\dots\dots = \dots\dots$

$\dots\dots = \dots\dots$

$\dots\dots = \dots\dots$

$\dots\dots = \dots\dots$

$\dots\dots = \dots\dots$

$\dots\dots = \dots\dots$

44×6

Can you do it in your head?

$40 \times 6 = \dots\dots$

$4 \times 6 = \dots\dots$

$44 \times 6 = \dots\dots$

- Write the tables of 7, 8 and 9 like this
- Do these calculation in your head

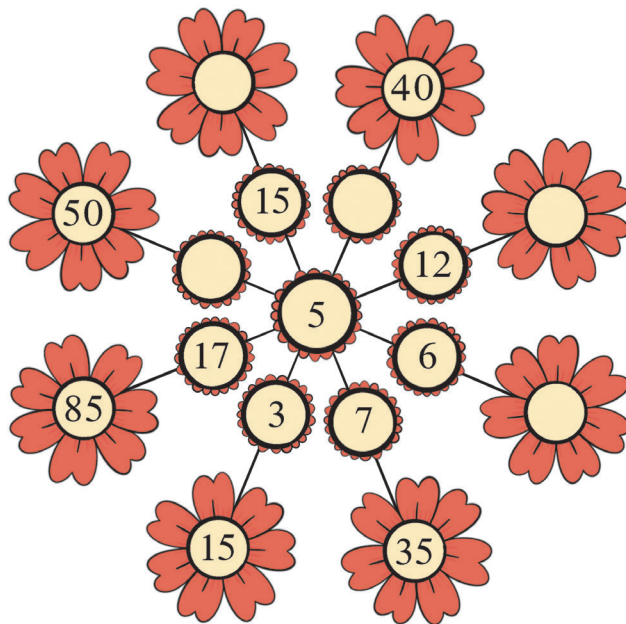
110×6

52×6

38×6

- Make more questions.

Complete The Pookkalam



Complete the Pattern

1. 3, 6, 9,,,
2. 4, 8,,, 20, 24,
3. 27, 36, 45,,,
4. 45, 40, 35,,,
5. 15, 30, 45,,,
6. 25, 50, 75,,,
7. 100, 200, 300, 400,,,

The pattern I found out.

1.,,,
2.,,,
3.,,,
4.,,,

Math Fair

The math fair in Meenu's school had many competitions and there were 6 winners. They were given books as gifts.

- The price of a book is 100 rupees.
- When 6 books were bought, the price of each book was reduced by 5 rupees.

What is the total amount paid?

How I calculated:

How my friends calculated:

The price of one book

Number of books

Total price

- What kinds of currency notes can be given as the price of books?

Another way

Notes	Number	Amount
Rs. 500	1	
Rs.200		
Rs.100		
Rs.50	1	
Rs.20		
Rs.10	2	
Rs. 5		
Total		

Notes	Number	Amount
Rs.500		
Rs.200		
Rs.100		
Rs.50		
Rs.20		
Rs.10		
Rs.5		
Total		

- 10 currency notes were given to the book seller.

Which notes can they be?

Notes	Number	Amount
Rs.500		
Rs. 200		
Rs. 100		
Rs. 50		
Rs. 20		
Rs. 10		
Rs. 5		
Total		

Notes	Number	Amount
Rs. 500		
Rs. 200		
Rs. 100		
Rs. 50		
Rs. 20		
Rs. 10		
Rs. 5		
Total		

Did everyone write the same answer?

Christmas Tree

Meenu bought 5 packets of trinkets to decorate her Christmas tree. The price of one packet is 98 rupees. What is the total price?



How I calculated:

Another way:

4. Math quiz

8 children won this month's math quiz in Meenu's school. It was decided to give each, a gift box with 6 items. The price list in two shops are given below.

Micky Stores	Dora Stores
Pencil 5 rupees	Pencil 4 rupees
Pen 8 rupees	Pen 10 rupees
Eraser 3 rupees	Eraser 3 rupees
Ruler 7 rupees	Ruler 9 rupees
Sketch pen packet 30 rupees	Sketch pen packet 27 rupees
Crayon packet 10 rupees	Crayon packet 8 rupees

- * From which shop is it better to buy the things?
- * How much would it cost to buy all the eight gift packs from Dora stores?
- * What if they were all bought from Micky stores?
- * They bought some of the things from one store and some from the other, depending on the price. Complete the table.

Item	Price
Total	

* How much was spent for the 8 gifts?

5. Fill up the cells

- Fill up the empty cells
- Multiply along the rows and columns.

2	×	3	=	
×		×		×
1	×	3	=	
=		=		=
.....	×		=	18

.....	×		=	
×				×
.....	×		=	
=				=
.....	×		=	24

6. Prize hunt

Take Meenu to the prize:



33	34	38	46	48
32	30	36	42	49
24	16	17	9	10
20	18	12	14	8
11	13	15	6	3

Take the path of
multiplication
by 6



10

LET'S SHARE

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

Stand Together, Friends!

Let's play the game "Standing Together"



20 children in Ajal's class played this game.

- When told, "Five together", how many groups were formed?

$$4 \times 5 = 20$$

- How many groups were formed, when told, "Four together"?

$$5 \times 4 = 20$$

- How many groups of two each?

$$10 \times 2 = 20$$

4 groups
of 5 is 20



- Which number gave the most number of groups?

How many groups?

- When told, "Ten together"?

$$2 \times 10 = 20$$

Total number of children	Number of children in a group	Number of groups
20	5	4
20		5
20	2	
20		

Sweet Mangoes

See the mango tree in the school ground.

A lot of mangoes fell down when a strong wind blew.

Ajal and friends picked them up.

- 16 ripe mangoes
- 28 raw mangoes
- 36 tender mangoes

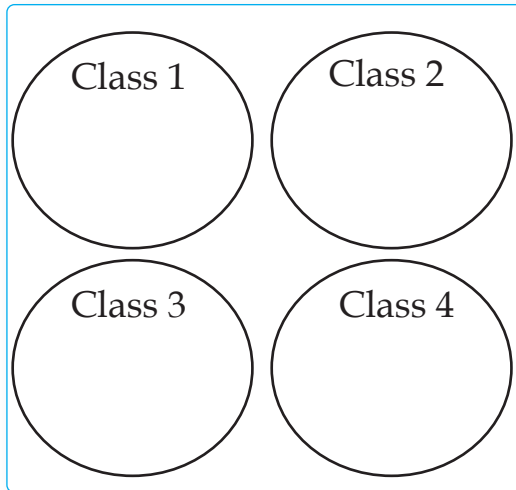


Ajal's school has 4 classes



They shared the ripe and unripe mangoes equally between the four classes.

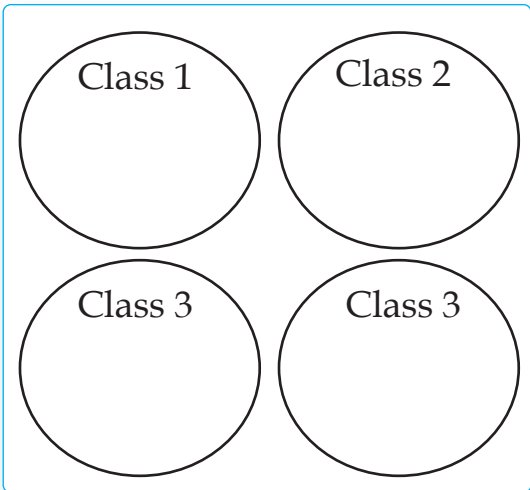
Divide the ripe mangoes into groups and colour them.



How many in this group?

$$4 \times 4 = 16$$

Divide the unripe mangoes into groups and colour them.



How many in this group?

$$7 \times 4 = 28$$

Ajal and his 5 friends shared the tender mangoes.

Divide the tender mangoes into groups and colour them.

A large, empty rectangular box with a blue border, intended for drawing or coloring groups of tender mangoes.

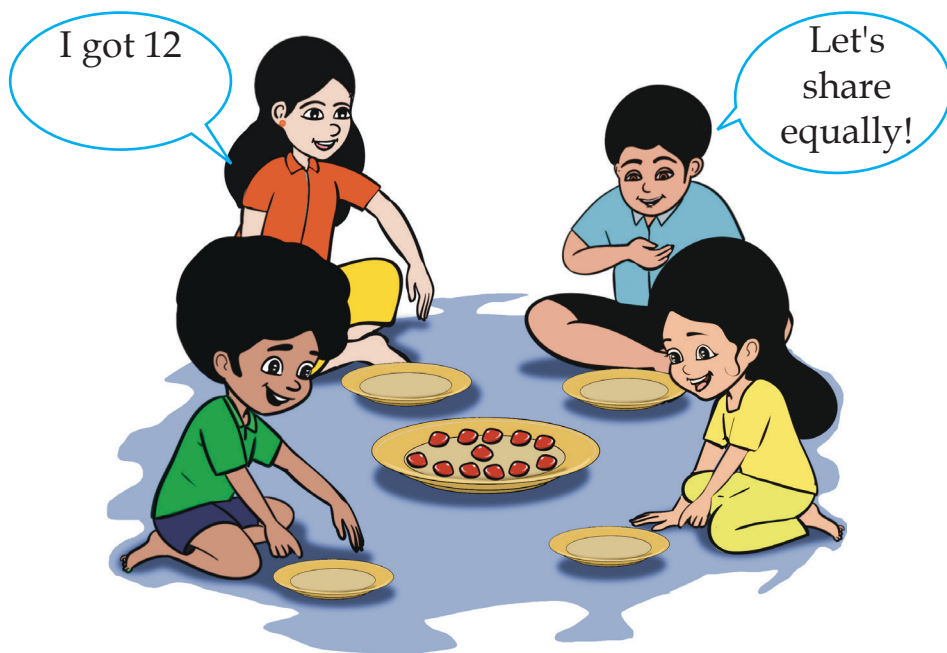
How many groups?

How many mangoes in each group?

$$\dots \times \dots = 36$$

Manchadi Game

Ajal and friends are collecting *manchadi* seeds for their math boxes from under the manchadi tree in the school ground.



There are 12 seeds in the bowl.

Abhinaya gave one seed to each.

One seed each, remaining seeds $12 - 4 = 8$

Two seeds each, remaining seeds $8 - 4 = 4$

Three seeds each, remaining seeds $4 - 4 = 0$

Total number of seeds

Total number of children

How many did each get?

Three
rounds of
sharing,
right?



..... $\times$ = 12

If 12 *manchadi* seeds are divided equally among 4 children, each will get 3 manchadi seeds.



What if 12 seeds are divided equally among 3 children?

After one round, remaining seeds $12 - 3 = 9$.

After 2 rounds

After 3 rounds

After 4 rounds

Total number of seeds.

Among how many children were they divided?

How many did each get?

..... $\times$ = 12

What if 12 seeds are shared equally between 2 children?

After one round, remaining seeds

.....

After two rounds, the remaining seeds

After three rounds,

.....

.....

.....

Total number of seeds

Divided between how many children?

How many did each get?

..... $\times$ = 12

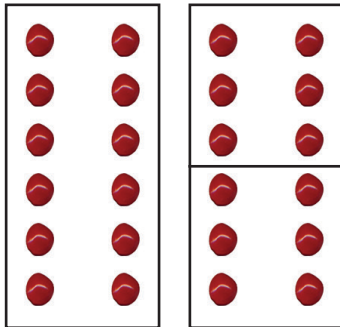


When 12 seeds were shared between 2 children, each got 6.

If 12 is divided into 4 equal groups, each group has 3.

If 12 is divided into 3 equal groups, how many
would each group have?

12 seeds split into 2 equal groups



Each group has 6

12 split into 2 equal groups, 6 in each group.

12 split into 2 equal parts, 6 in each part.

12 divided into 2, each is 6.

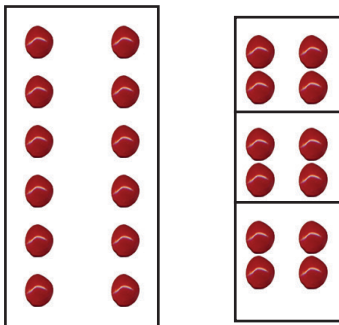
We also say 12 divided by 2 is 6.

We write it using a symbol: $12 \div 2 = 6$.

$$12 \div 2 = 6$$

We read this as "12 divided by 2 is equal to 6"

12 seeds are split into 3 equal groups.



4 in each group.

If 12 seeds are divided into 3 equal groups, 4 each group would have 4.

That is, 12 divided by 3 is equal to 4.

$$12 \div 3 = 4$$

$$4 \times 3 = 12$$

If 12 seeds are divided into 4 equal groups,

That is, 12 divided by 4 is equal to 3.

$$12 \div 4 = 3$$

$$3 \times 4 = 12$$

12 seeds are divided into 6 equal groups.

That is, 12 divided by 6 is equal to

$$\dots \div \dots = \dots$$

$$\dots \times \dots = 12$$

Let's write

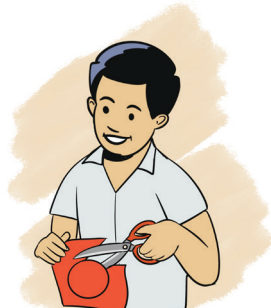
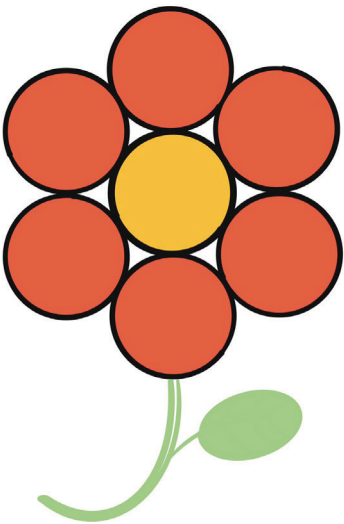
Event	Math operation	Math language	
12 seeds shared equally between 2 children	12 is split into 2 equal parts	12 divided by 2	$12 \div 2 = 6$
12 seeds shared equally between 4 children			$12 \div 4 = 3$
	12 is split into 3 equal parts.		

Complete the Table

Event	Math Operation	Math language	
6 sweets shared equally between 2 children	6 is split into 2 equal parts	6 divided by 2	$6 \div 2 = 3$
16 pencils shared equally among 4 children			
18 pens shared equally among 6 children			

Let's Make Flowers

Ajal and friends are making flowers to decorate the stage for the 'Mikavu Fest'. 7 circles make a flower. They got 21 circles. How many flowers can they make?



- Abhinaya and friends got 35 circles.

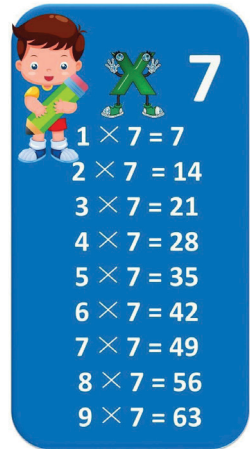
How many flowers can they make?

$\dots \times \dots = 35$

- How many flowers can be made with 28 circles?

Number of Flowers

Group	Number of circles	Number of circles for a flower	Operations	Number of flowers
1	21	7	$21 \div 7 = 3$	3
2	35	7		
3	28	7		
4	70	7		
5	14	7		



- Can you turn the operation $63 \div 7 = 9$ into a question?

How Many Egg Trays?

- There are two types of egg trays in the shop run by Ajal's father. One holds 4 eggs and the other, 6 eggs.

How many trays are needed for 24 eggs?

4 egg trays

6 egg trays



See the table

$6 \times 4 = 24$	$24 \div 4 = 6$
	$24 \div 6 = 4$

Can you complete these?

$7 \times 8 = 56$	$56 \div 7 = 8$	$9 \times 4 = 36$	
			

$6 \times 5 = 30$		$8 \times 4 = 32$	
			

$6 \times 3 = 18$	$18 \div 6 = 3$
	$18 \div 3 = 6$
$24 \div 3 = 8$	$8 \times 3 = 24$
$9 \times 6 = 54$	
$36 \div 9 = 4$	

Kitchen Garden



For the kitchen garden of the school, saplings were brought in 45 pots. They were arranged in five rows.

How many pots are there in each row?

One part of 45 split into 5 equal parts.

45 divided by 5 is equal to

$$45 \div 5 =$$

$$\dots \times \dots = 45$$

Train in the School Park

In Ajal's school there are 32 children in the pre-primary class. The train in the school park has 4 coaches. If the same number of children are to be seated in every coach, how many can sit in each?

$$\boxed{} \div \boxed{} = \boxed{}$$

Kiddie Cars

The 18 children in Ajal's class want to ride the kiddie cars in the park. 3 children can sit in one car. How many cars are needed for all of them to ride at the same time?

$$\boxed{} \div \boxed{} = \boxed{}$$

How many cars which seat only 2?

$$\boxed{} \div \boxed{} = \boxed{}$$

Play and Win

See the snakes and ladder board on the page 145.

- Start at 1
- Climb up the ladders and slide down the snakes.
- Some squares have operations written on them. Move the counter to the squares showing the answer.
- The first to reach 100 is the winner.



Assessment

1. How many sweets?

15 sweets are equally shared by 3 children. How many does each get?

2. Benches in the class

There are 28 kids in Shiyan's class. 4 kids sit in each bench. How many benches are there?

3. Notes and Coins

A 50 rupee note is changed to 5 rupee coins. How many coins are there?

- If each is to get 10 rupees, among how many persons can this be shared?

4. Rows and columns

81 children stand in rows and columns with the same number standing in each row and column.

- How many are there in a row?
- How many are there in a column?

5. Magic box

Anything put into the magic box doubles and then increases by one, every minute. A sweet put in the box became 31 after 4 minutes. How many were there after 3 minutes?

HOW MUCH IN A BOTTLE? HOW MUCH IN A BAG?



Water Relay

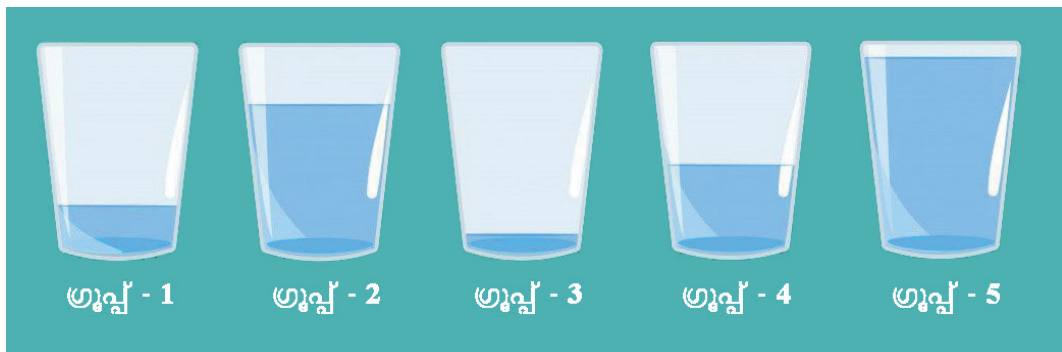
See the picture on page 159.



Let us also play this game.

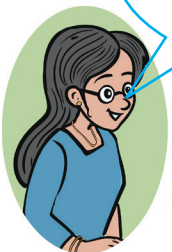
The group which won.

Leju's class played this game in groups. Water collected by each group was poured into the glasses. See the pictures:



Which group of Leju's class won?

Water Bell



Didn't you hear the water bell? Everyone, drink some water now.



Now fill up the water bottles



Whose water bottle can contain the most amount of water?

How many glasses of water can it hold?

How much in the bottle?



- Which bottle can hold the most amount of water? Draw a circle around it.
- Which bottle would hold the least? Draw a square around it.



Mom said my bottle can hold one litre of water

How about measuring the water to see if it's actually a litre?



Things We buy



What items in your home are bought in quantities of 1 litre?

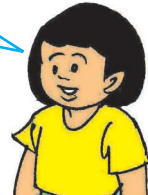
•	•
•	•
•	•

Let's Measure and Fill

Use measuring jars to see how much water your bottle can hold.



I don't have a measuring jar



Let's Make Measuring Jars

Make your own measuring jars of 1 litre, 500 millilitres and 250 millilitres, out of used bottles.

Mark 100 millilitres and 50 millilitres also on the 200 millilitre vessel.

Millilitre is a smaller measure than a litre



What are the things we buy in quantities less than a litre?

Item	Measure
Milk	500 millilitres

We can write millilitres as *ml* and litre as *l*



How Much Water?

How many glasses of water do you drink per day?

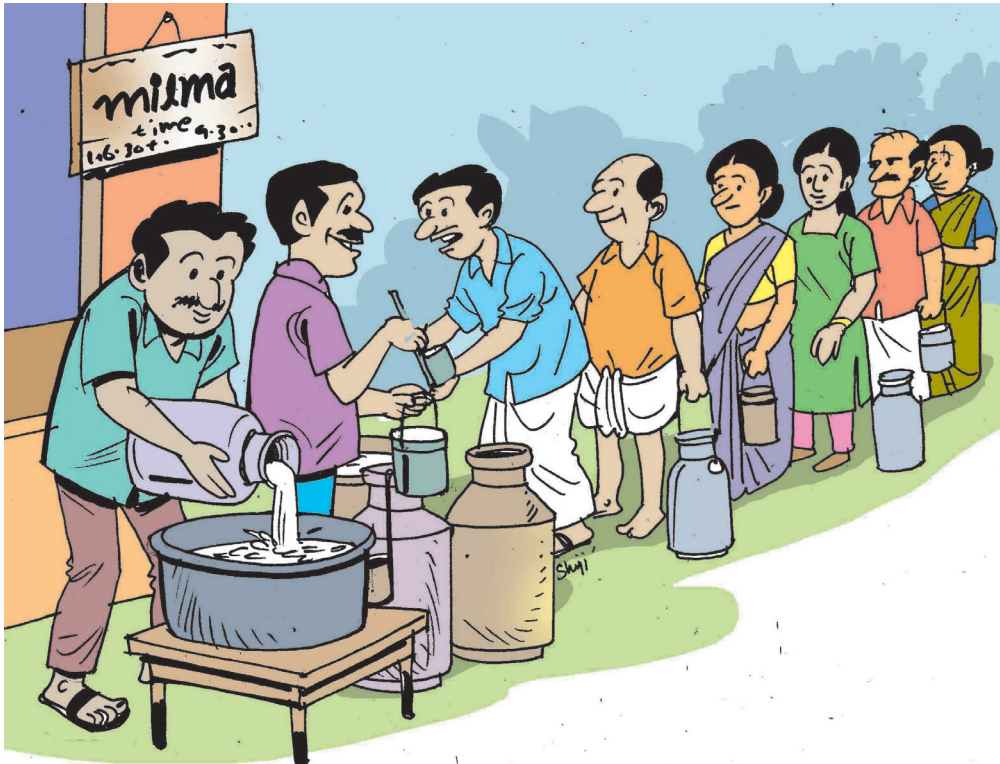
Measure and write

Guess how much water the various vessels in your home can hold. Then actually measure them and write.



Vessel	Guess	Actual measure
Tea glass		
Cup		
Tea pot		
Bucket		
Mug		
Rice pot		

Milk Society



Leju's father sold milk to the society.

It was measured 2 times with a 2 litre vessel and once with a 1 litre vessel.

How many litres of milk did Leju's father sell ?

• 2 litre can filled twice gives

 litre

• 1 litre can filled once makes

 litre

• Total quantity of milk

 litre

After Leju's father, the next in line was Janaki Aunt. The milk was measured using a 1 litre can filled 3 times and a 200 millilitre can filled two times. How much milk did Janaki Aunt sell ?

 litre millilitre

- 1 litre can filled 3 times makes

..... litre

- 200 millilitre can filled 2 times gives

..... ml

- Total

..... l ml

Basheer came to buy milk for his teashop. He was given 3 litres of the milk brought by Leju's father. How much of it is left?

Small Measures

Write some instances of using the things shown in the picture:



- Measuring medicine

•

- Adding salt to curry

•

•

•

•

•

How much medicine can the small spoon hold?

Measure and write

How much water can a bottle cap hold?

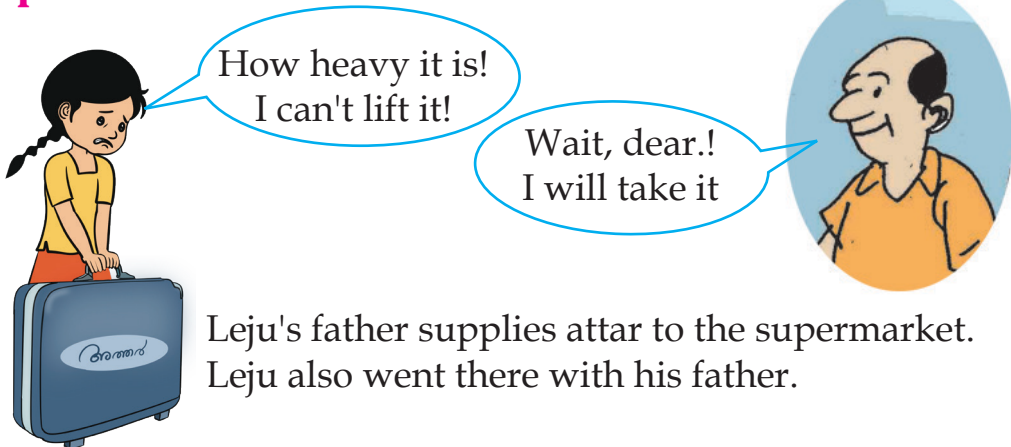
Measure and write.

Attar sales

Leju's father sells attar also. He buys attar from wholesale merchants and sells it in 5 millilitre bottles. How much attar is needed to fill 20 such bottles?

How many bottles can be filled with 20 millilitres of attar?

Supermarket



What things are bought in your home, which weigh one kilogram?

-
-
-
-
-

Must buy a kilogram of sugar



These are the things Leju and his father bought from the supermarket:

- Rice - 10 kilogram

Atta - 1 kilogram

Rawa - 2 kilogram
- Sugar - 1 kilogram

Rice flour - 2 kilogram

Green gram - 1 kilogram



I'll carry the things

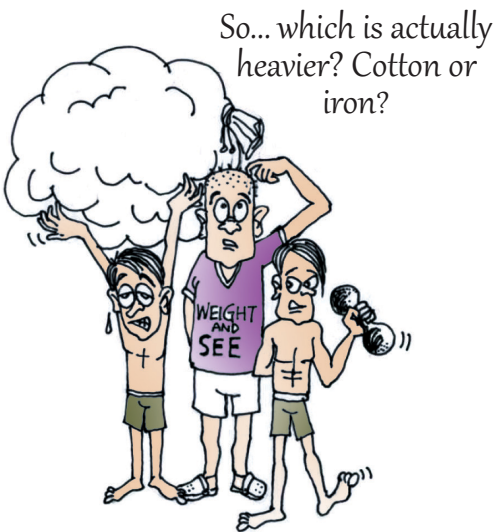


Let's get an auto

Total weight of the thing bought from the super market

..... kilogram

So heavy!



What things in the classroom can you lift yourself? What are the things you cannot lift?

Things I can lift	Things I can't lift



How Many Instruments to Weigh!



Weight is measured in kilogram or gram



Gram is a smaller measure than kilogram



Let's Weigh!

Weight of My bag		Weight of Friend's bag	
Guess	Actual	Guess	Actual

My weight		Friend's weight	
Guess	Actual	Guess	Actual

Health Chart

Get these details about your classmates and complete the table:

Boys				Girls			
Name	Age	Height cm	Weight kg	Name	Age	Height cm	Weight kg

The table below shows the ideal height and weight for children of 7, 8 and 9 years, according to the chart in Family Health Centre

Boys			Girls		
Age	Height cm	Weight kg	Age	Height cm	Weight kg
7	122	23	7	121	22
8	127	26	8	126	25
9	133	28	9	133	28

Compare the heights and weights of your friends with the chart above and write a note.

Food Kit

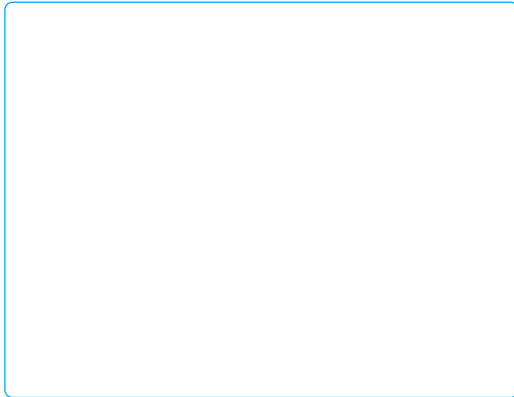


Punchiri club near Leju's home distributed food kits for Onam. The table shows the items in the kit and their weights.

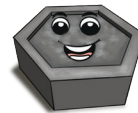
Tea	100 g	Turmeric powder	100 g
Sugar	1 kg	Coconut oil	1 kg
Cashew nuts	40 g	Raw rice	500 g
Ghee	50 g	Green gram	500 g
Cardamom	10 g	Pigeon pea	200 g
Banana chips (Jaggery)	50 g	Salt	1 kg
Chilly powder	500 g	Banana chips	250 g

- How many things in the kit weigh 1 kilogram ?
- What is their total weight ?

- Which things in the kit weigh less than 1 kilogram ?



250 grams = quarter of a kilogram
 500 grams = half a kilogram
 750 grams = three quarters of a kilogram



Assessment

1. How many bottles?

A shop has 10 litres of coconut oil in stock. How many 1 litre bottles are needed to fill this oil? How about 2 litre bottles?

2. Leju's home

Leju's house is to be painted. The table shows the amount of paint bought:

Colour	Measure
White	20 litres
Green	5 litres
Yellow	5 litres
Violet	1 litre
Blue	2 litres

How many litres of paint did they buy?

3. Gas cylinder

A fully filled gas cylinder weighs 29 kilograms and an empty cylinder 15 kilograms. What is the weight of the liquid in the cylinder ?

What is the weight of a half filled cylinder?



4. Measuring oil

500 litres of oil is needed. There is a 200 millilitre jar and a 100 millilitre jar. What are the different ways in which we can measure out 500 litres using these jars ?

5. How to measure ?

Using a 500 millilitre jar and a 200 millilitre jar how can we measure out 100 millilitres ?

6. Math lab

4 weighing blocks were made for the math lab.

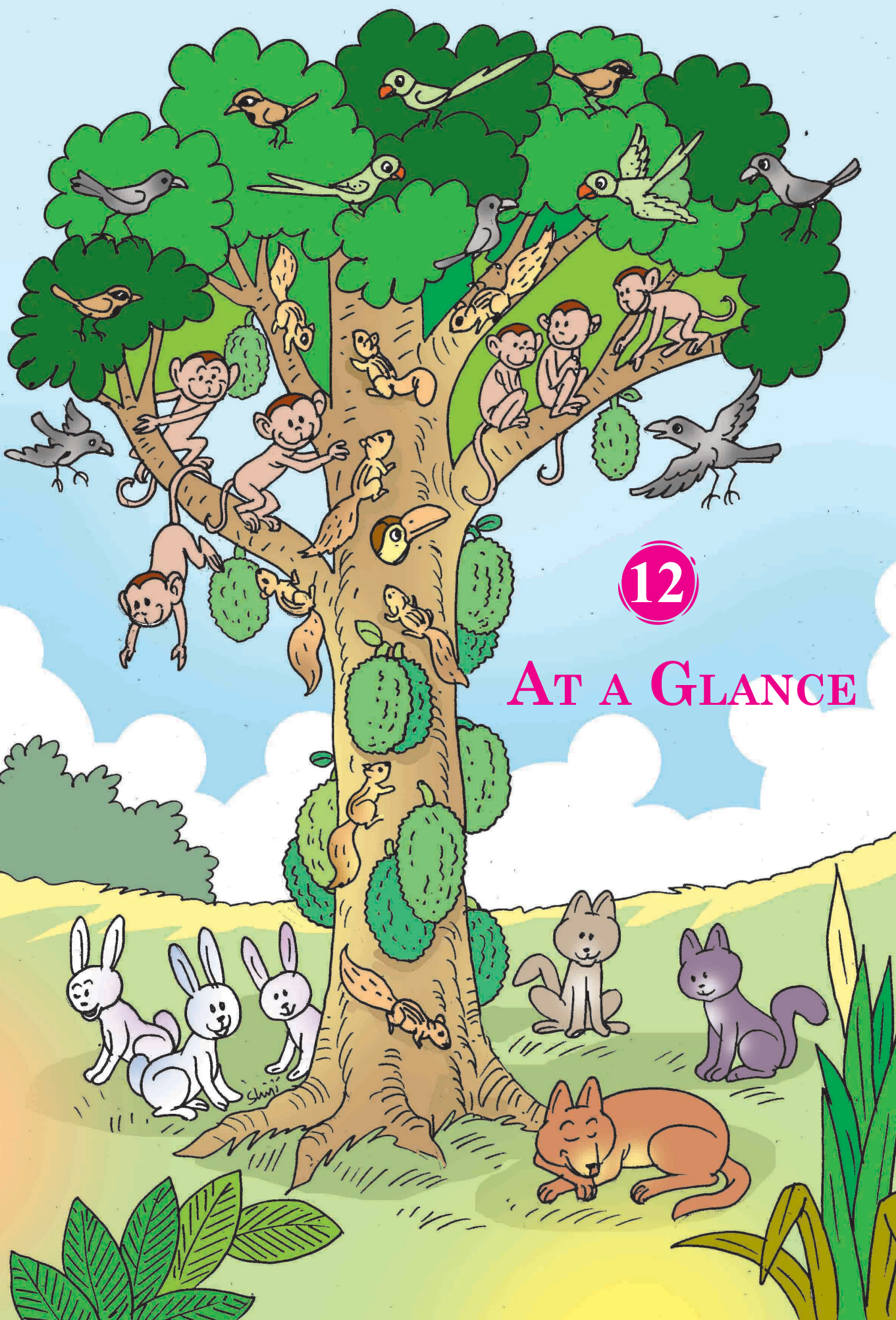
The total weight of all four is 15 kilograms.

Weights from 1 to 15 grams can be measured using these.

What is weight of each block ?

How do we weigh 14 kilograms using them?

How about 7 kilograms?

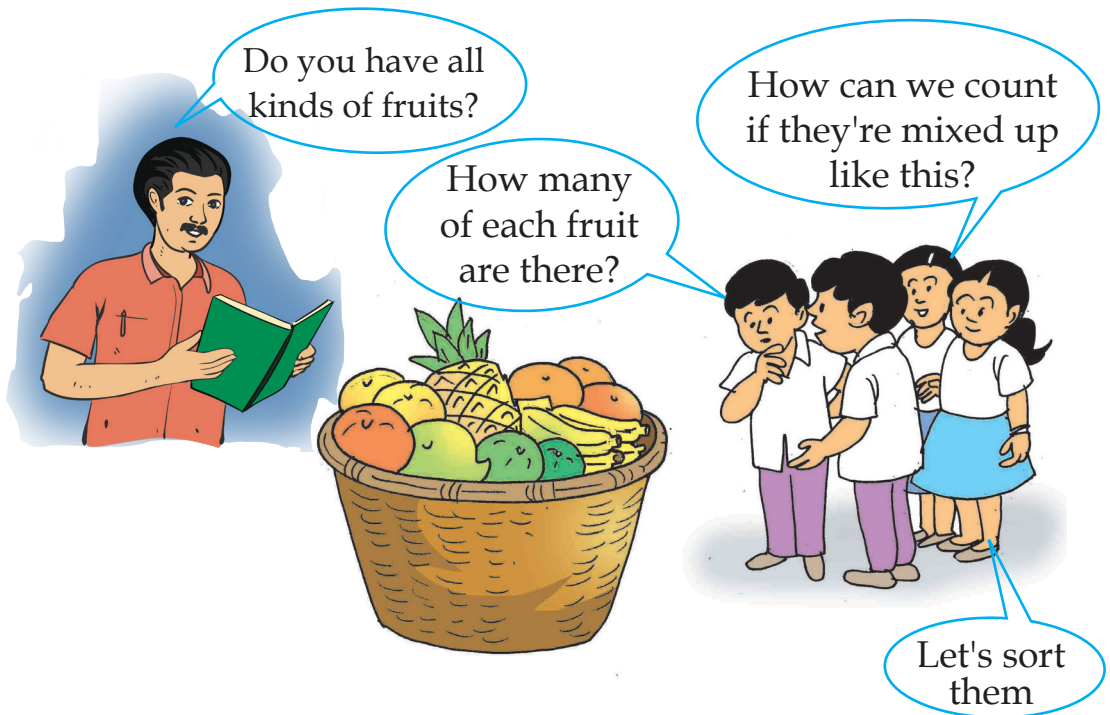


12

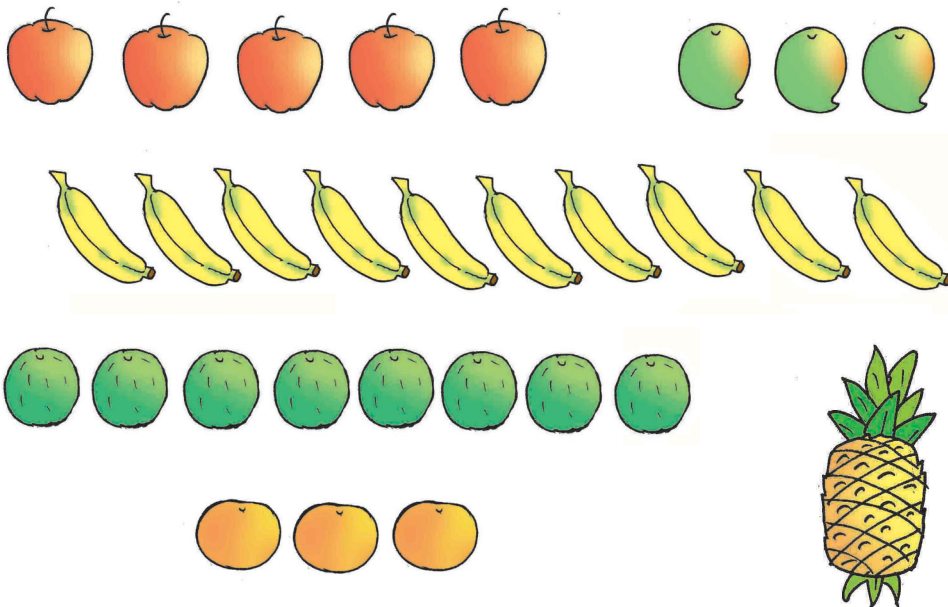
AT A GLANCE

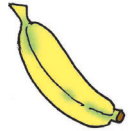
Fruit Salad

The children in Milan's class brought fruits to make fruit salad.



See how the fruits are sorted.



Fruit						
Number						

- Which fruit is the most in number?

No' oranges!

- Which fruit is only one in number?

- Which fruits are same in number?

- How many more guavas are there than pineapples?

- Which fruits are more in number than mangoes?



They took vessels from the school kitchen and made fruit salad. And shared it with others.

Can you also make fruit salad? What vessels would you take from the kitchen? Write in the table below.

Item				
Number				

Item				
Number				

At My Home

The number of vessels in my home

Item				
Number				

Item				
Number				

Snacks

Milan went to the kitchen to count the vessels. His mother was making *unniyappam*, his favourite snack.



Millan went to his class with *unniyappam*



Ask your friends about their favourite snacks. Make a table of the number of children who like each snack using pictures like this.



Snack	Numbers
• <i>Ilayada</i>	
• <i>Neyyappam</i>	
• <i>Uzhunnuvada</i>	
• <i>Bonda</i>	
• <i>Unniyappam</i>	
• <i>Parippuvada</i>	
• <i>Ullivada</i>	
•	
•	

Which snack is liked by the most number?

How many?

How many like *uzhunnuvada*?

Which snack is not liked by anyone?

Write some questions like this. Ask your friends also

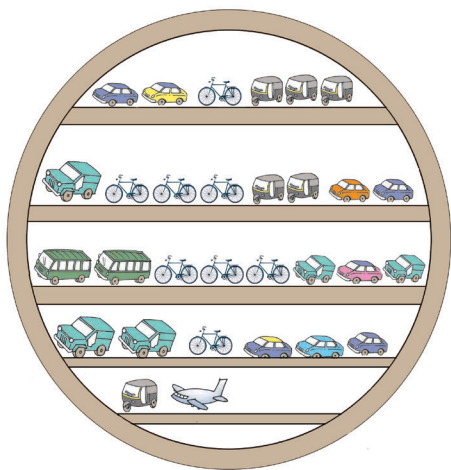
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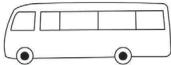
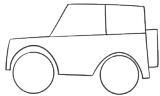
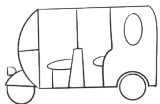
Toy Vehicles

They went to the toy shop to buy a birthday gift for Milan.

See the many toy vehicles in the picture

Draw as many pictures of each toy as there are in the shop. Write their numbers also



	Pictures	Number
		
		
		
		
		
		

Which vehicle is the least in number?

Which vehicles are of the same number?

My questions

-
-
-
-
-

So Much to See!

What things do you see in your school building? Doors, windows, blackboards, lights, fans, switches and so on. Make a table of these.

Item	Number in pictures	Number
Window		
Door		
Blackboard		
Switchboard		
Fan		
Light		

My questions

-
-

Picture Reading

Look at the picture on page 173. Which animals and birds do you see? Write in this table.

Name	Number
Monkey	

My questions

-
-
-
-



Assessment

How Many Children?

The table shows the data of students in Milan's school.

Class	Number of boys	Number of girls
I	15	19
II	20	20
III	19	22
IV	20	17

- Which class has the most number of girls?
- Which class has the most number of children?
- How many boys are fewer in class IV than the boys in class I?
- Which classes have the same number of boys?
- In Milan's school
 - How many boys are there?
 - How many girls are there?
 - What is the total number of students?

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:

Kerala State Commission for Protection of Child Rights

'Sree Ganesh', T. C. 14/2036, Vanross Junction

Kerala University P. O., Thiruvananthapuram - 34, Phone : 0471 - 2326603

Email: childrights.cpcr@kerala.gov.in, rte.cpcr@kerala.gov.in

Website : www.kescpcr.kerala.gov.in

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