Joyful Mathematics

Class 2

Part - II

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QRickit

0224

विद्ययाऽमृतमश्नुते
एन सी ई आर टी
NCERT

राष्ट्रीय शैक्षिक अनुसंधान और प्रशिक्षण परिषद्
NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

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Constitution of India

Part IV A (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, wildlife 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 achievement;

*(k) who is a parent or guardian, to provide opportunities for education to his child or, as the case may be, ward between the age of six and fourteen years.

Note: The Article 51A containing Fundamental Duties was inserted by the Constitution (42nd Amendment) Act, 1976 (with effect from 3 January 1977).

*(k) was inserted by the Constitution (86th Amendment) Act, 2002 (with effect from 1 April 2010).

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CONSTITUTION OF INDIA

Part III (Articles 12 – 35)
(Subject to certain conditions, some exceptions
and reasonable restrictions)

guarantees these

Fundamental Rights

Right to Equality

- before law and equal protection of laws;
- irrespective of religion, race, caste, sex or place of birth;
- of opportunity in public employment;
- by abolition of untouchability and titles.

Right to Freedom

- of expression, assembly, association, movement, residence and profession;
- of certain protections in respect of conviction for offences;
- of protection of life and personal liberty;
- of free and compulsory education for children between the age of six and fourteen years;
- of protection against arrest and detention in certain cases.

Right against Exploitation

- for prohibition of traffic in human beings and forced labour;
- for prohibition of employment of children in hazardous jobs.

Right to Freedom of Religion

- freedom of conscience and free profession, practice and propagation of religion;
- freedom to manage religious affairs;
- freedom as to payment of taxes for promotion of any particular religion;
- freedom as to attendance at religious instruction or religious worship in educational institutions wholly maintained by the State.

Cultural and Educational Rights

- for protection of interests of minorities to conserve their language, script and culture;
- for minorities to establish and administer educational institutions of their choice.

Right to Constitutional Remedies

- by issuance of directions or orders or writs by the Supreme Court and High Courts for enforcement of these Fundamental Rights.

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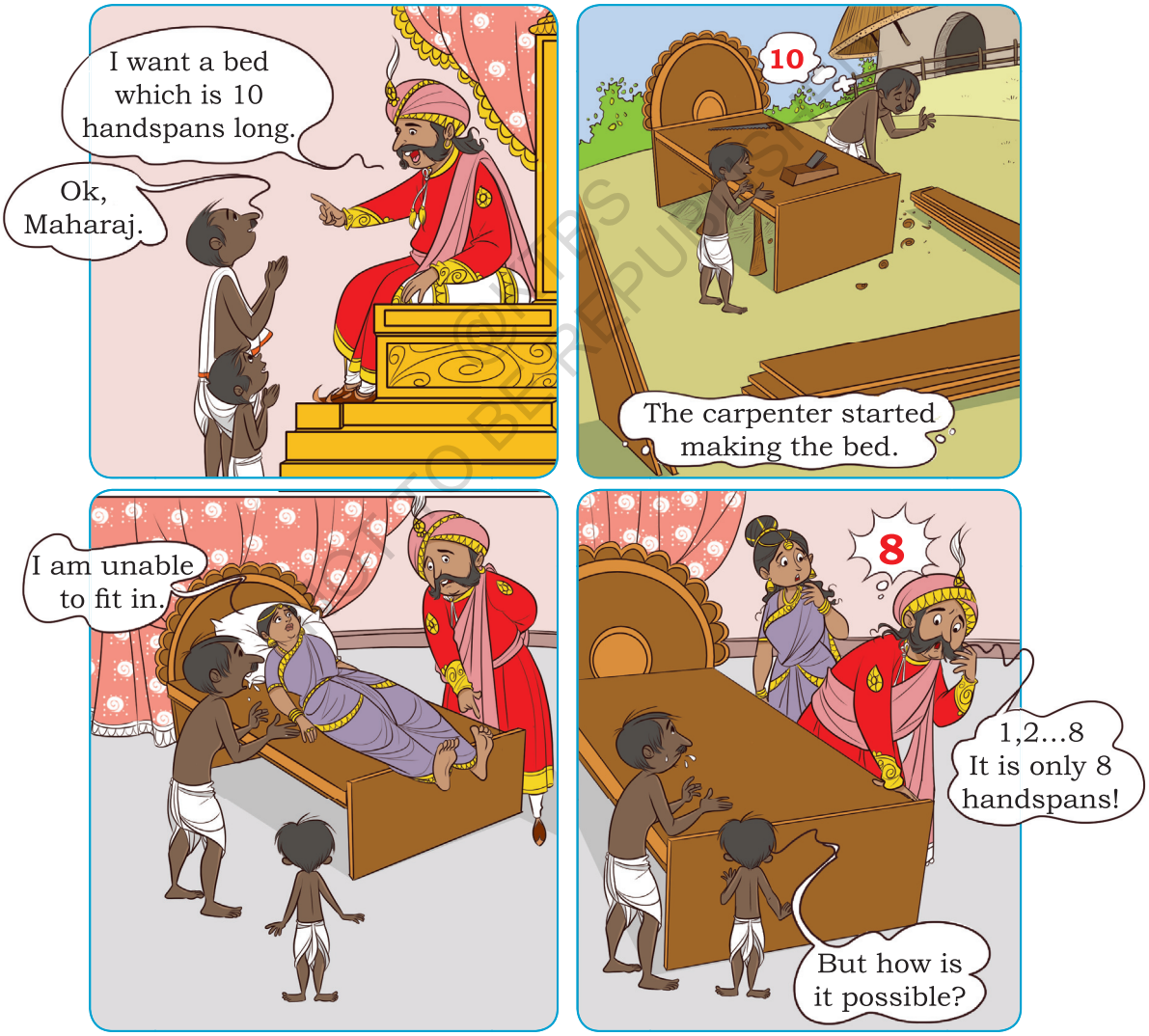
7 Rani's Gift

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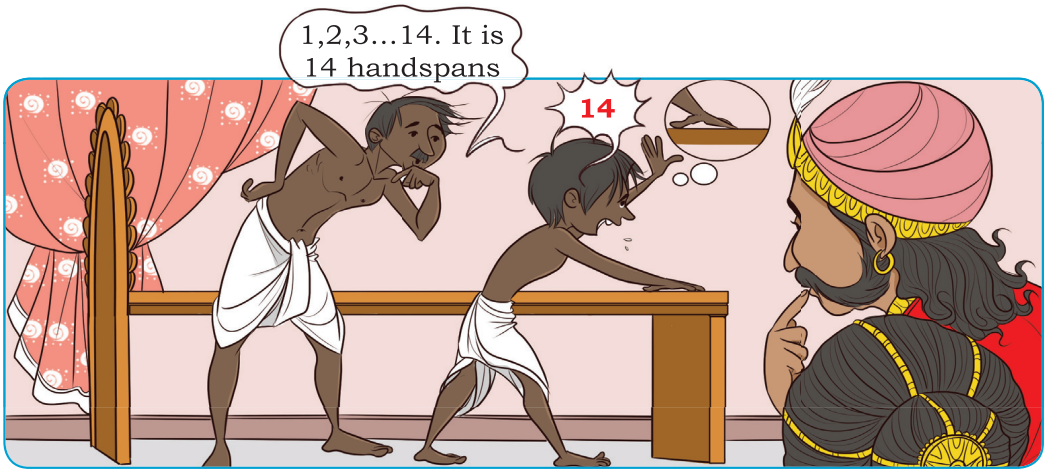
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Let us Read

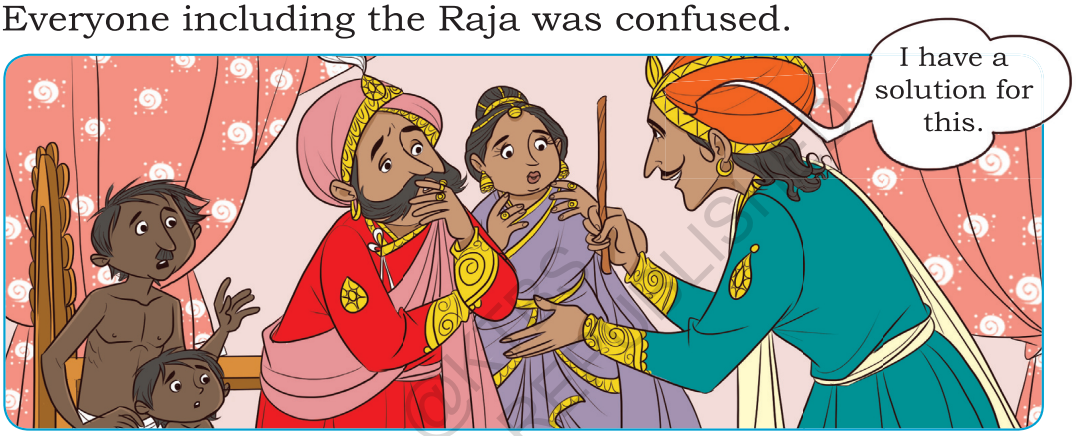
Once upon a time, Raja Jagdeep wanted to make a beautiful carved bed for his queen. He called his best carpenter from the town.



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Everyone including the Raja was confused.

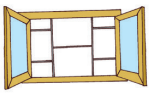


Discuss the solution which was given by the *Mantri* to solve the confusion.

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Let us Do

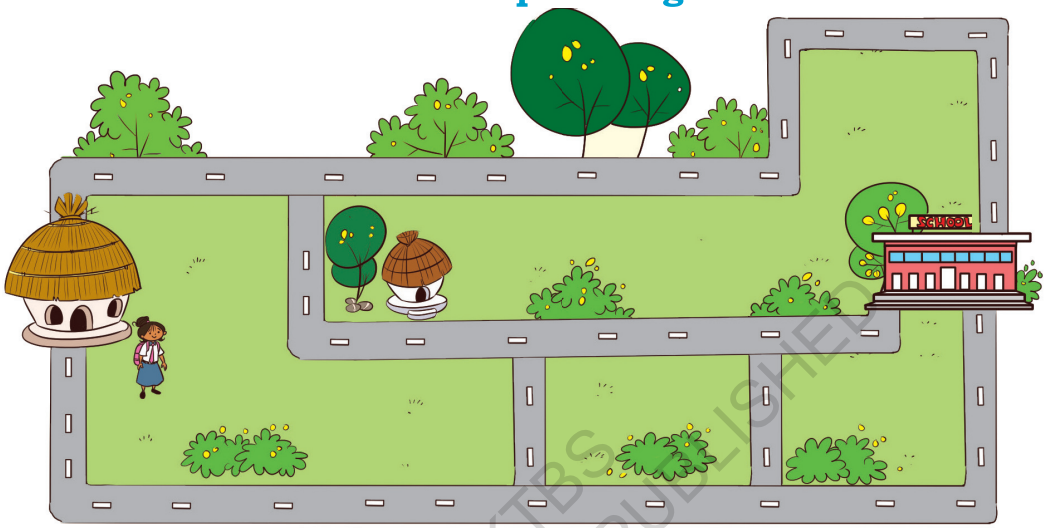
Use your textbook to measure the length of the following objects.

Objects	Estimated length	Actual length
Desk 		
Blackboard 		
Window 		

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Let us Do

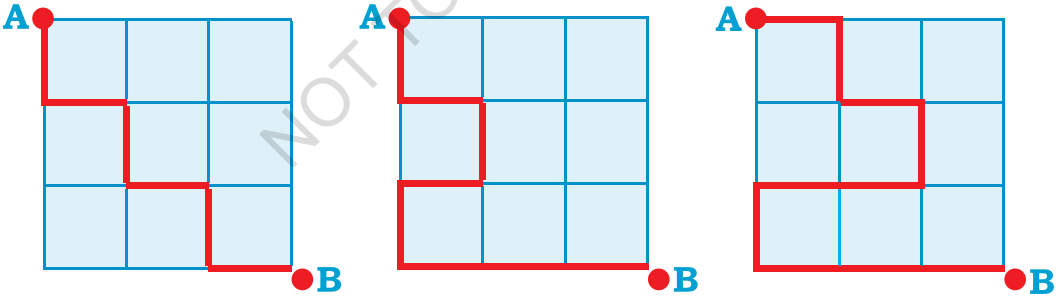
Kavita is going to the school from her home. She is getting late. Which path should she use to reach the school fast? Mark it in the picture given below.



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Let us Do

Choose the longest path from A to B.



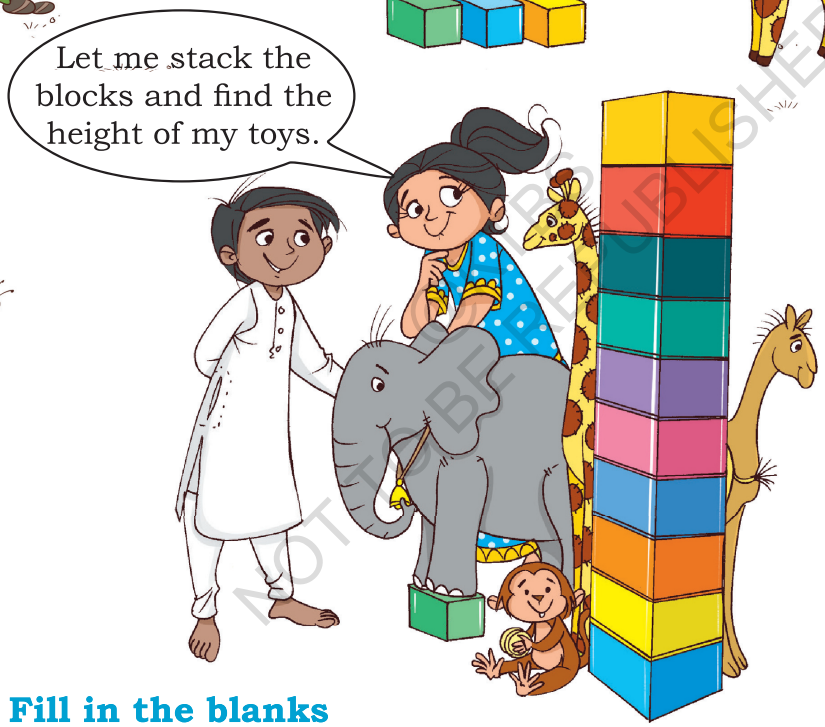
Also make the shortest path between A and B.

Encourage children to verify their choice of path using a thread. Ask them to help each other in measuring the length.



How Many Blocks?





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Fill in the blanks

A. The giraffe is _____ blocks tall.

B. The _____ is 7 blocks tall.

C. The monkey is _____ blocks tall.

D. The _____ is 5 blocks tall.

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Let us Do

How long is your hand? Trace your hand in the space given below and count the number of lines.

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Project Work

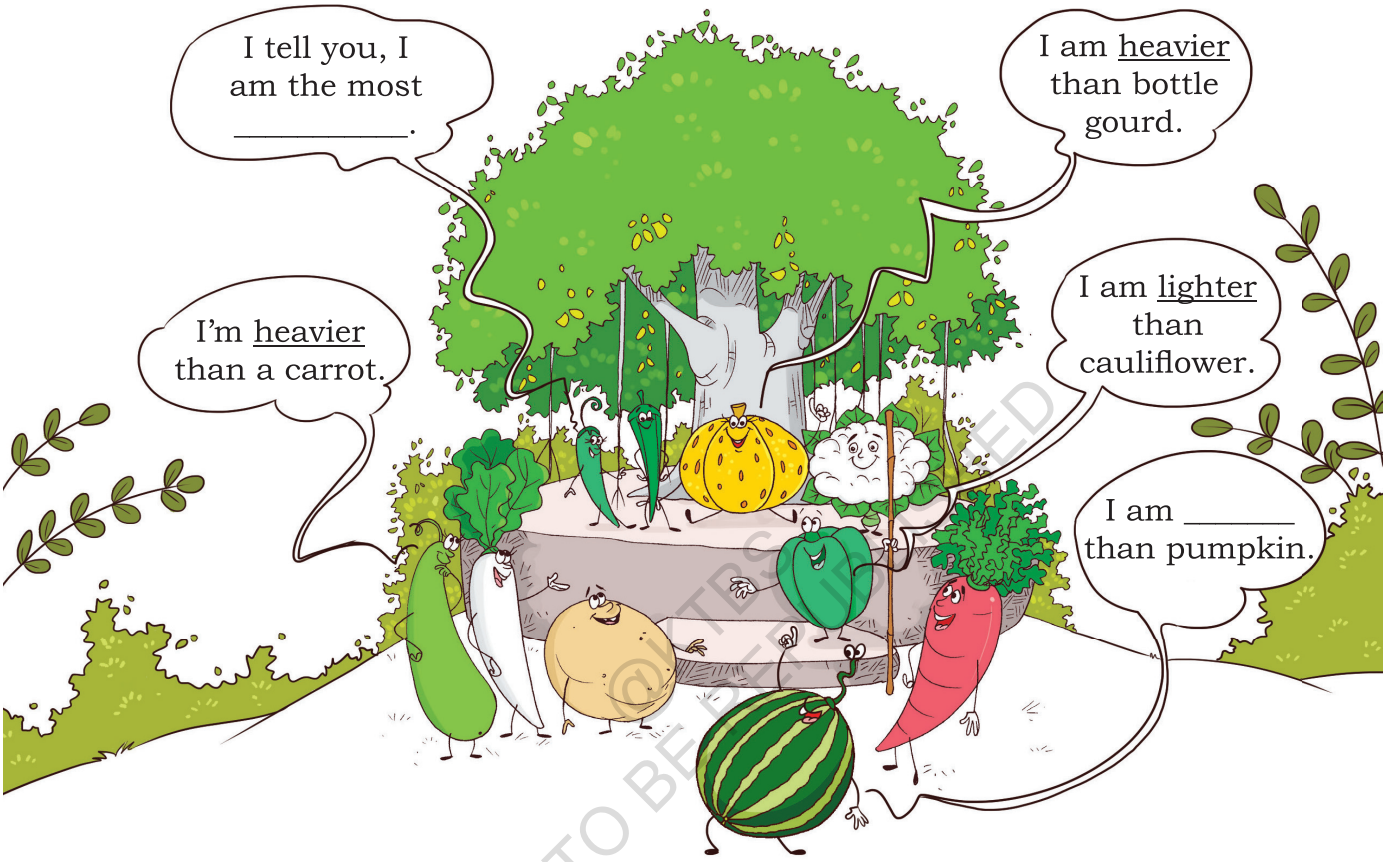
Find the length of the following using any tool of your choice (eraser, blocks, pencil). Record your measurement.

- Any wall of your house
- Length of your bed
- Length of a door



Pumpkin's Chaupal

Look at the picture and compare which vegetables are lighter or heavier than the other vegetables.



What do you think is heavier— a pumpkin or a watermelon? Discuss.

Fill in the blanks.

A. Muskmelon is heavier than carrot.

B. Capsicum is lighter than _____.

C. _____ is heavier than _____.

D. _____ is lighter than _____.

E. _____ is the heaviest of all.

F. _____ is the lightest of all.

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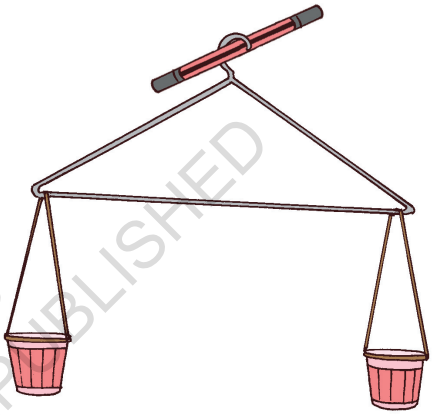
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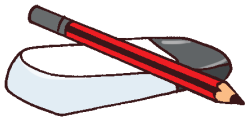
Let us Do

Collect a few things from your surroundings. Sort out the lightest and the heaviest among those. Arrange all the things in the increasing order of their weight.
How do you know which is light and which is heavy?

Make your own Balance!

Make your own balance with the help of a paper cup, thread and a hanger like the one shown here. Now compare any two objects like eraser, ball, bead, pencil, crayon, etc., to see which one is heavier.





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Let us Do

Circle ◯ the heaviest one.

A.

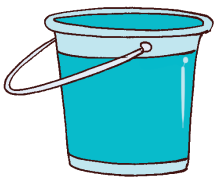






B.







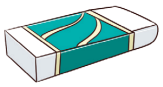


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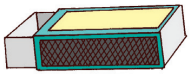
Circle ◯ the lightest one.

A.





B.



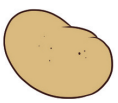

Let us Think

Tick ✓ the vegetables and fruits which will make the balance go down. Mark Light (L) and Heavy (H).

A.



H



L

B.





C.



L



H

D.



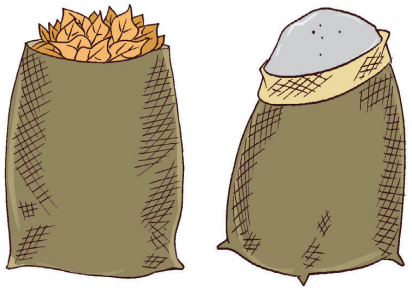




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Let us Do

Take two paper bags of same size. Fill one with sand and the other with dry leaves. Discuss their weights (which bag is heavier).



Look at the pictures and discuss the different types of balance used by people in the pictures given below.

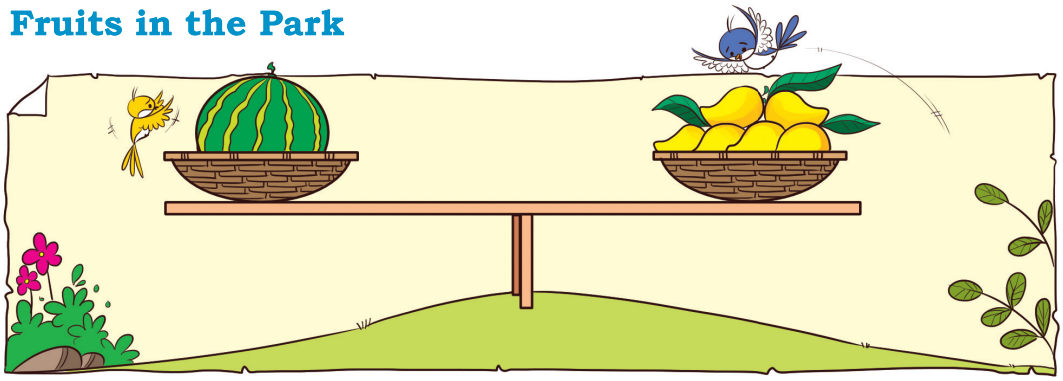
Tick ✓ the type of balance you have seen before.



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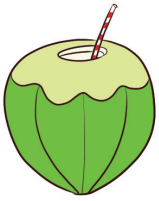
Fruits in the Park



Watermelon and mango want to play on the see-saw. Watermelon sits on one side, but he could not get up. His friend mango called other mangoes to sit on the other side.

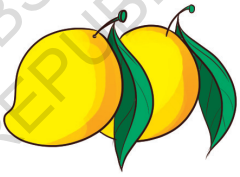
A. How many mangoes will balance the watermelon? Find out from the picture given above.

B. How many coconuts can balance the watermelon if—



Weight of 1 Coconut

=



Weight of 2 Mangoes

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Project Work

Name some of your family members or friends who you think weigh

A. almost the same as you _____

B. more than you _____

C. less than you _____

Find out the places where you can check your weight. What is your weight?

Encourage students to estimate the weight of different objects around them in relation to other objects.

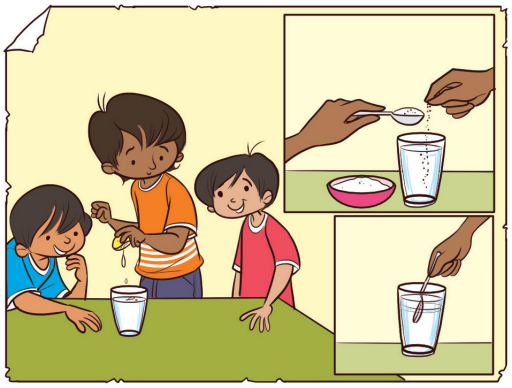




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Let us make *Nimbu Pani.*

Raghu and his friends made *nimbu pani* for Raghu's grandmother.



He used the following things to prepare 1 glass of *nimbu pani*.

A. Water: 1 glass

B. Sugar: 1 spoon

C. Lemon juice: 2 spoons

D. A pinch of salt

Now Raghu wants to make *nimbu pani* for himself and his two friends. Raghu has to make 3 glasses of *nimbu pani*. Write the quantity of ingredients he has to use to make 3 glasses of *nimbu pani*.

Water: ☐ glasses

Sugar: ☐ spoon

Lemon juice: ☐ spoons

Salt: ☐ pinch

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Find Out

Name some drinks that are prepared at your home. Find out the ingredients used for making your favourite drink and write them below.

Name of your favourite drink _____

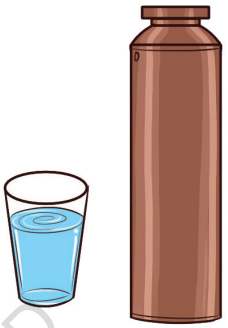
Ingredients	Quantity





Find Out

Raghu's bottle is filled with four glasses of water.



A. How many glasses of water can fill your bottle? ____

B. How many glasses of water can fill your friend's bottle? ____

C. Does your friend's bottle fill with equal/more/less amount of water?

Name the friend whose bottle can carry—

A. Equal water as yours ____

B. Less water than yours ____

C. More water than yours ____

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Project Work

To make a *jal tarang* (musical instrument), arrange 5–7 similar glasses or bowls. Fill them with varying levels of water. Gently tap a spoon on each glass or bowl and hear how each one sounds. Tap at different parts of the glass or bowl to feel the difference.

Discuss the uses and importance of water in our life. Also discuss the proper usage and no wastage of water.



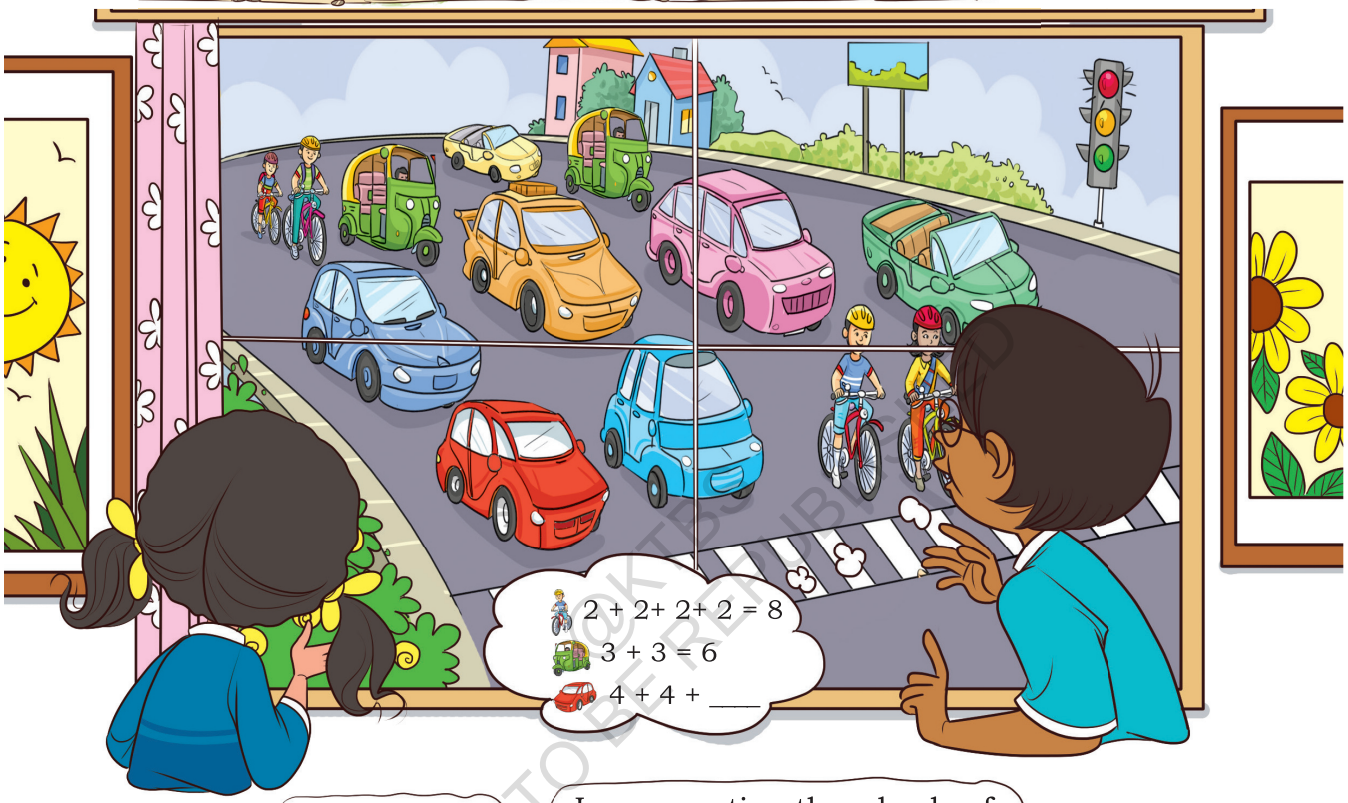


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8 Grouping and Sharing

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What are you looking at?

I am counting the wheels of autorickshaws and bicycles by adding the number of their wheels. But I missed the cars as they had started moving.





Ok! I will show you a way of finding the total number of wheels. There were 7 cars and each car had 4 wheels, so the total number of wheels is 7 times 4, means 28.

How did you do it Ramya? Can you please explain?



Discuss the importance of traffic rules with children.





Let us Do

There are 4 bicycles .
Each bicycle has 2 wheels.
Total wheels = 2 + 2 + 2 + 2 = 8
We are adding 2 for 4 times.
So, 4 times 2 is also 8 or 4 groups of 2 give 8.
You know, times can be written as '×'.
4 × 2 = 8





Number of autorickshaws = 2
Each auto has 3 wheels.
Total wheels = 3 + 3 = 6
2 times 3 is 6 or 2 groups of 3 is 6.
2 × 3 = 6

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Let us do it for cars.

Number of cars = ☐

Number of wheels in each car = ☐

Total wheels = ☐ + ☐ + ☐ + ☐ + ☐ + ☐ + ☐ = ☐

☐ times 4 is ☐

7 groups of ☐ is ☐

☐ × ☐ = ☐

How many **fours** are you adding? ____
We can write it as
7 fours are 28.



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Let us Do

Number of butterflies = ☐

Number of wings in each butterfly = ☐

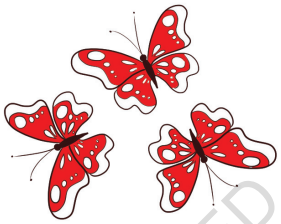
Total number of wings = ☐ + ☐ + ☐ = ☐

or 3 groups of ☐ is ☐

☐ times 2 is 6

3 twos are ☐

☐ × ☐ = ☐



Number of octopuses = ☐

Number of legs in each octopus = ☐

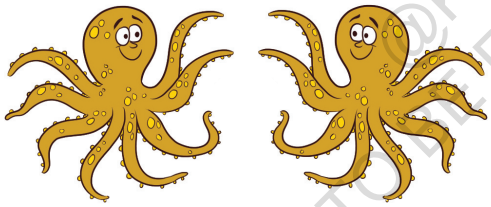
Total number of legs = ☐ + ☐ = ☐

2 groups of ☐ is ☐

2 times ☐ is 16

2 eights are ☐

☐ × ☐ = ☐



Number of lines = ☐

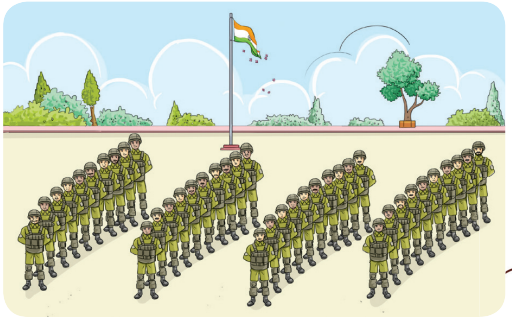
Number of soldiers in each line = ☐

Total number of soldiers = ☐ + ☐ + ☐ + ☐ = ☐

☐ times ☐ is 40

4 tens are ☐

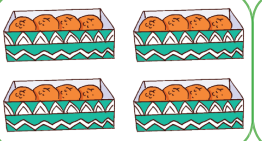
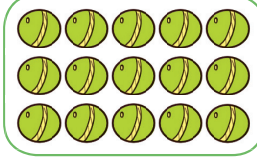
☐ × ☐ = ☐





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Complete the Table

	3 + 3 + 3 + 3	4 times 3	4 × 3 = 12 Stars
	5 + 5 + 5	_____	_____ Fingers
	_____	6 times 3	_____ Bananas
	_____	_____	4 × 4 = 16 Oranges
	_____	_____	2 × 5 = 10 Pencils
	_____	_____	3 × 5 = 15 Balls

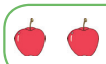
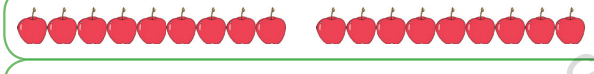
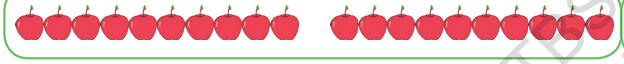
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Match the Following

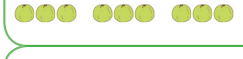
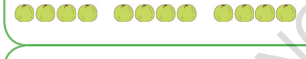
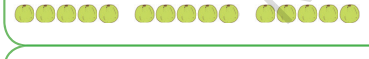
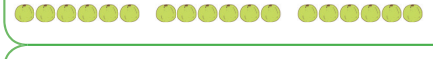
9 + 9 + 9	7 fives are	27
5 + 5 + 5 + 5 + 5 + 5 + 5	4 groups of 10	35
3 + 3 + 3 + 3 + 3	3 × 9	40
10 + 10 + 10 + 10	3 × 8	14
8 + 8 + 8	2 sevens are	15
7 + 7	5 times 3	24

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Complete the Table of 2

	2 ones are 2	2 × 1 = 2
	2 twos are 4	2 × 2 = 4
	2 threes are 6	2 × 3 = 6
		
		
		
		
		
		
		

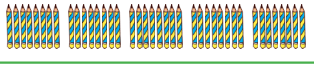
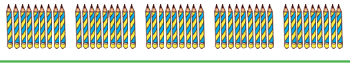
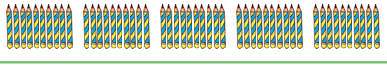
Complete the Table of 3

	3 ones are 3	3 × 1 = 3
	3 twos are 6	3 × 2 = 6
	3 threes are 9	3 × 3 = 9
		
		
		
		
		
		

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Complete the Table of 5

	5 ones are 5	5 × 1 = 5
	5 twos are 10	5 × 2 = 10
	5 threes are 15	5 × 3 = 15
		
		
		
		
		
		
		

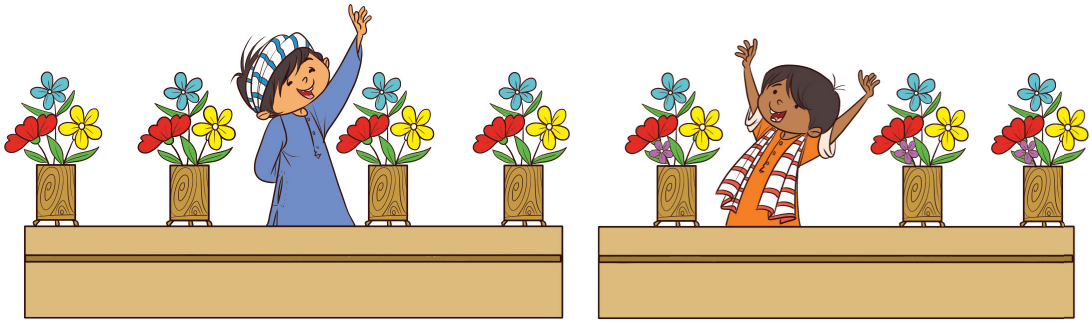
Complete the Table of 10

	10 ones are 10	10 × 1 = 10
		
		
		
		
		
		
		
		
		

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How Many?



There are 4 bouquets.

4 groups of 3 flowers

4 × 3

Ram used 12 flowers in all.

There are 3 bouquets.

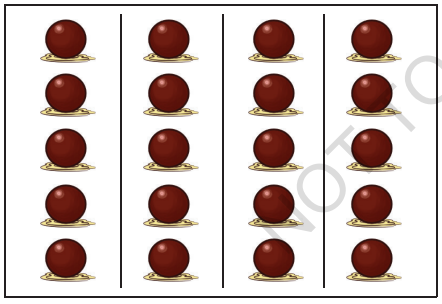
3 groups of 4 flowers

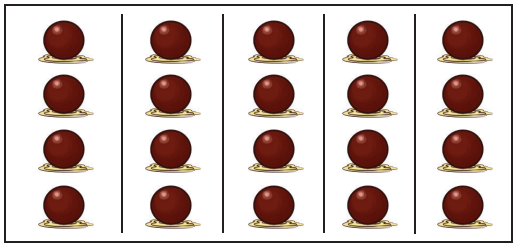
3 × 4

Gopal used 12 flowers in all.

Did you observe something? Discuss.

Test your observation with other examples.





4 groups of 5

___ times 5 is ____

4 × 5 =_____

There are ____ *gulab jamuns.*

5 groups of 4

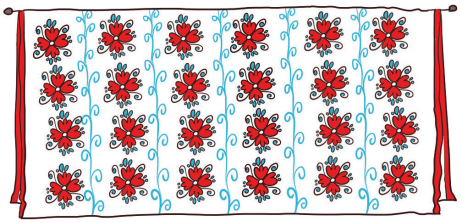
___ times 4 is ____

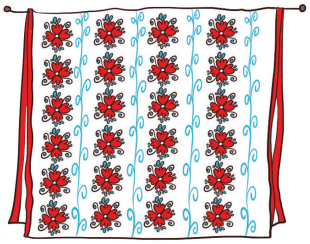
5 × 4 = _____

There are ____ *gulab jamuns.*

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6 groups of 4

___ times 4 is ____

6 × 4 = _____

There are _____ flowers.

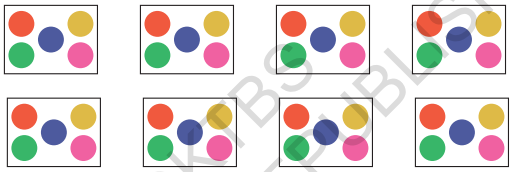
4 groups of 6

__ times 6 is ____

4 × 6 =_____

There are ____ flowers.

A. There are 8 packets of *bindis*. Each packet has 5 *bindis*.



Number of packets = ☐

Number of *bindis* in each packet = ☐

☐ groups of ☐ *bindis*.

☐ × ☐ = ☐ *bindis*

B. Bharti puts 4 buttons on each shirt. She wants to put buttons on 7 shirts.

Number of shirts = ☐

Number of buttons on each shirt = ☐

☐ groups of ☐ buttons

☐ × ☐ = ☐ buttons





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C. Rita bought 6 pencils of ₹4 each. How much money will she give to the shopkeeper?

Number of pencils = ☐

Cost of 1 pencil = ☐

Cost of 6 pencils = 4 + 4 + 4 + 4 + 4 + 4

☐ × ☐ = ☐

So, Rita will give ₹ ☐ to the shopkeeper.

D. Five people can sit in a car. How many people can sit in 8 such cars?

Number of people sitting in 1 car = ☐

Number of people sitting in 8 cars = ☐

☐ × ☐ = ☐

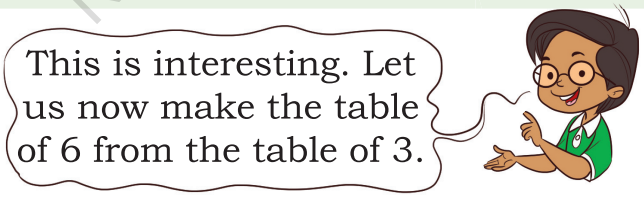
☐ people can sit in 8 cars.

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Making Multiplication Table

Rudra is making multiplication table of 4 using the table of 2.

	2	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**	(Table of 2)
+	2	4	6	8	10	12	14	16	18	20	
	4	**8**	**12**	**16**	**20**	**24**	**28**	**32**	**36**	**40**	(Table of 4)



	3	6	☐	12	☐	☐	21	☐	☐	30	(Table of 3)
+	3	☐	9	☐	☐	18	☐	24	☐	☐	(Table of 3)
	6	☐	☐	☐	☐	☐	☐	☐	☐	☐	(Table of 6)





Let us make the table of 7 from the tables of 3 and 4.

	3	6	9	12	15	18	21	24	27	30	(Table of 3)
+	4	8	12	16	20	24	28	32	36	40	(Table of 4)
	7	**14**	**21**	**28**	**35**	**42**	**49**	**56**	**63**	**70**	(Table of 7)

Make the table of 8 from the table of 2 and 6.

	2	4	☐	☐	10	☐	14	☐	18	20	(Table of 2)
+	6	☐	☐	☐	☐	36	☐	48	☐	☐	(Table of 6)
	8	☐	☐	☐	☐	☐	☐	☐	☐	☐	(Table of 8)



Project Work

Collect 24 small objects like buttons, bottle caps, pebbles, etc. Arrange them in different arrays and write the related multiplication facts. How many of these facts can you find? Record your answers in the table given below.

Number of groups	Multiplication facts
3 groups of 4	3 × 4



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Let us Share

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A. How many *gulab jamuns* were there in total? ____

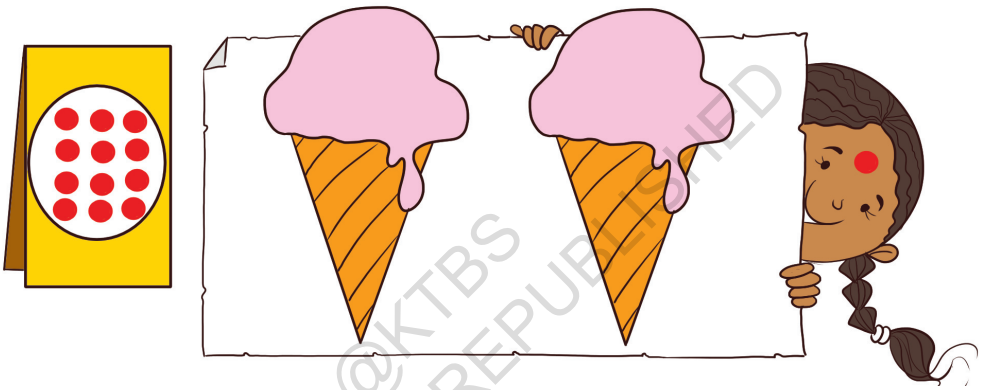
B. Have they shared equally? **Yes**/**No**

C. How many *gulab jamuns* did each of them get? ____



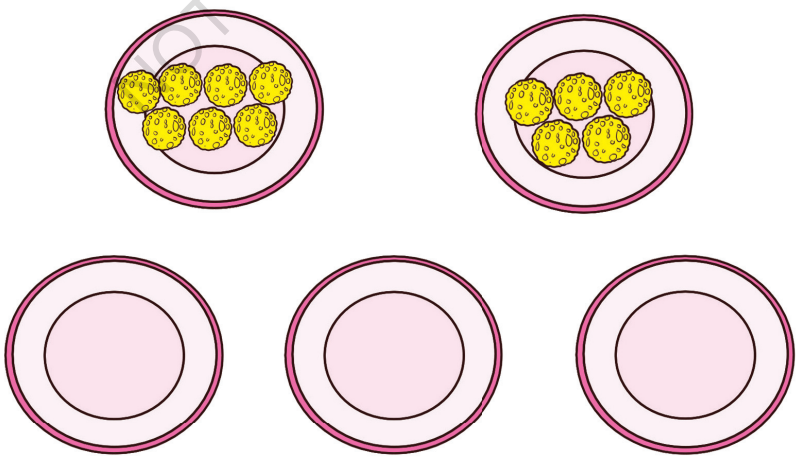
Let us Do

A. Complete Ritu's art and craft project by drawing 12 *bindis* equally on 2 ice cream cones as cherries.



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B. Pooja has 2 plates. Each plate has a different number of *laddoos* in it. Help her divide the *laddoos* equally in 3 plates. You can draw and colour the *laddoos*.





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How Many Groups?



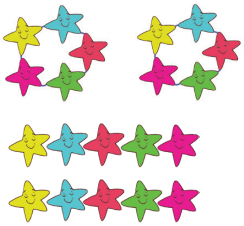


Hi, I am Garima. I have 20 star shaped beads and I will use 5 beads to make each bracelet.



Look, 1 bracelet is ready. Isn't it beautiful?





I have made 2 bracelets. Now, 10 beads are left.

Let us see how many more can we make.



Yayy! 3 bracelets are ready.





I have used all the beads finally.



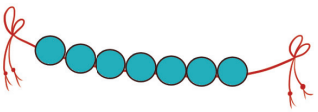


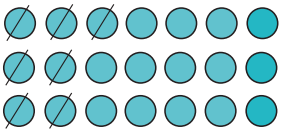
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Let us Make

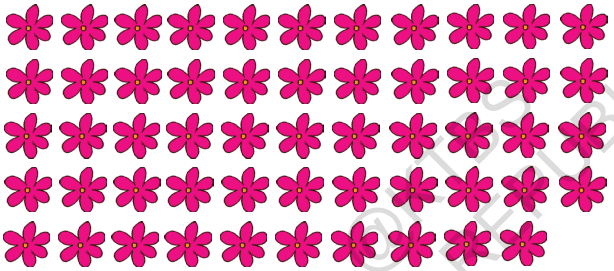
A. Each string has 7 beads.

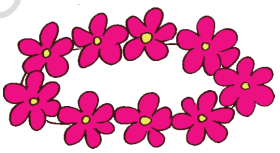




How many strings can we make with 21 beads? ☐

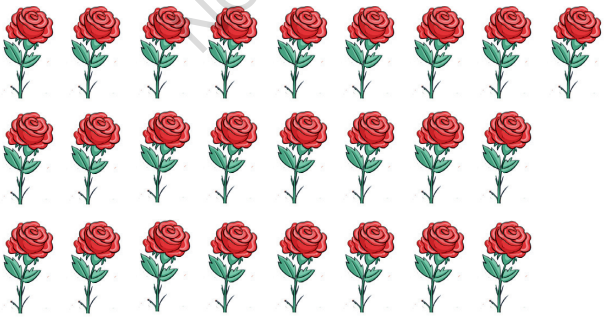
B. There are 54 flowers. Join 9 flowers to make 1 bracelet.





How many bracelets can we make with 54 flowers? ☐

C. There are 25 roses. 5 roses can be placed in 1 vase. How many vases are needed for placing 25 roses?



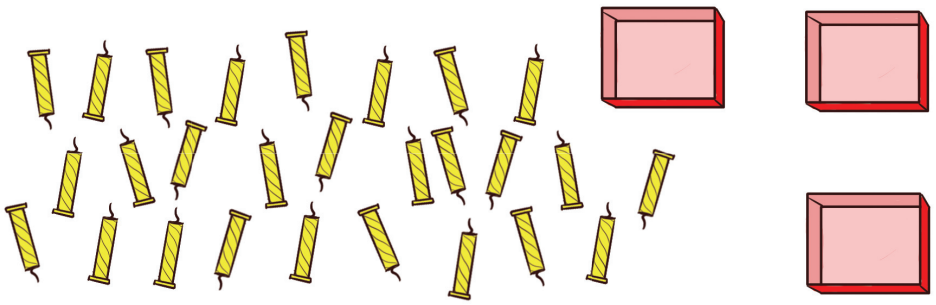


☐ vases are needed.



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D. There are 27 candles. Put them equally in 3 boxes. How many candles will be in each box?



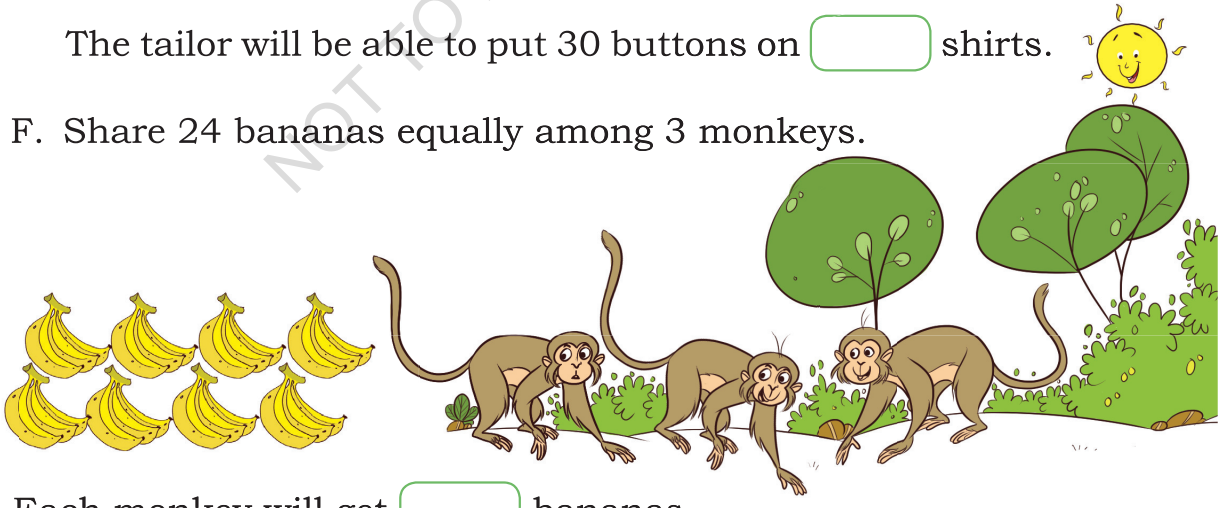
There will be ____ candles in each box.

E. A tailor puts 6 buttons on one shirt. Here are 30 buttons.



The tailor will be able to put 30 buttons on ____ shirts.

F. Share 24 bananas equally among 3 monkeys.



Each monkey will get ____ bananas.



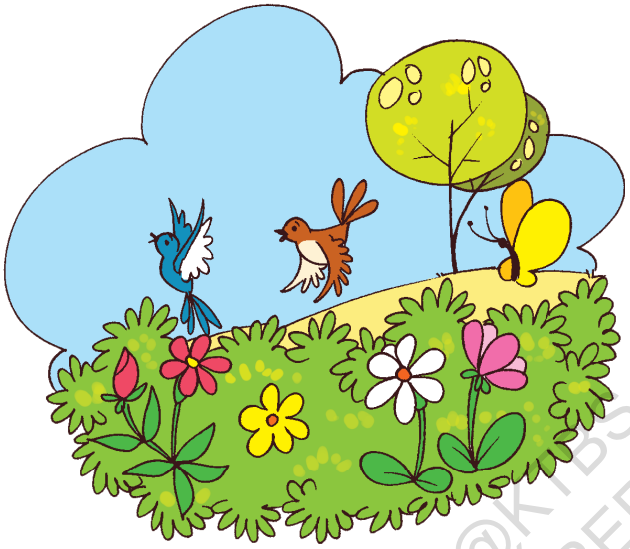
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9 Which Season is it?

Seasons

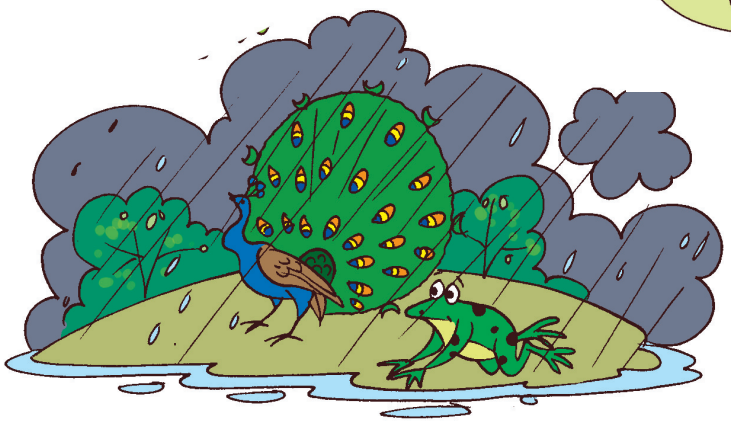


Five seasons in a year
Spring begins with
a cheer
Flowers bloom,
the birds sing
When comes
the merry spring.

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Summer comes
with the shining sun
and a long day
for children to play.



Rainy season
comes with the
water drops;
Peacock dances
and the frog hops.

Leaves fall
on the ground.
Pleasant winds
on the way,
is when it is an
autumn day.





Winter is when
I'm all in snow
from head to toe.

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Let us Discuss

A. In which season do you go on a vacation?

B. Your birthday falls in which season of the year?

C. Which is your favourite season? Why?

D. What is special about your favourite season?

Read the poem aloud and enact. Discuss the special things that they do in different seasons. Also talk about the various locally available food and clothes, for example, *pheran* in Kashmir, etc. Also, discuss how the local variations in seasons affect the daily lives of people.



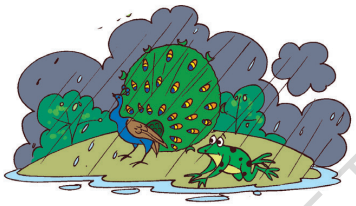
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Match the seasons with their names and festivals.











Autumn

Dussehra,
Sharad Purnima

Summer

Guru Purnima,
Buddha Purnima
Ram Navami
Mahavir Jayanti

Spring

Gudi Padwa,
Shivratri, Baisakhi,
Holi

Winter

Lohri,
Christmas,
Republic day,
Gurunanak Jayanti
Bihu

Monsoon

Janmashtami,
Raksha Bandhan,
Independence day

Discuss the names of the seasons in Hindi, such as *Vasant, Shishir,* etc., and in other regional languages as well. Tell them about other festivals like Eid, which are not seasonal.



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Calendar Fun

JANUARY

S	M	T	W	T	F	S
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				

FEBRUARY

S	M	T	W	T	F	S
			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				

MARCH

S	M	T	W	T	F	S
			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	

APRIL

S	M	T	W	T	F	S
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

MAY

S	M	T	W	T	F	S
	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			

JUNE

S	M	T	W	T	F	S
				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	

JULY

S	M	T	W	T	F	S
30	31					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

AUGUST

S	M	T	W	T	F	S
		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		

SEPTEMBER

S	M	T	W	T	F	S
					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

OCTOBER

S	M	T	W	T	F	S
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				

NOVEMBER

S	M	T	W	T	F	S
			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		

DECEMBER

S	M	T	W	T	F	S
31					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

*Calendar based on 2023

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Look at the calendar and fill the table.

Months	Number of days
January, March, May, July, August, October, December	
February	
April, June, September, November	





Let us Talk

A. Why do we use a calendar?

B. Does February have the same number of days in every year? Discuss.

C. How many days are there in a week? ☐ days.

D. In the calendar given on the previous page how many Sundays are there in the month of April? ☐ Sundays.

E. Which months have 5 Sundays? _____, _____, _____, _____, _____.

F. Summer vacations are in the months of _____ and _____.

G. Winter vacations are in the months of _____ and _____.

H. Find the total number of days in April and March. ☐ days + ☐ days = ☐ days



Project Work

Make your own calendar of your birthday month and mark your birthday in it.



S	M	T	W	T	F	S

Discuss the importance of calendar in our day-to-day life.





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How Long Does it Take?

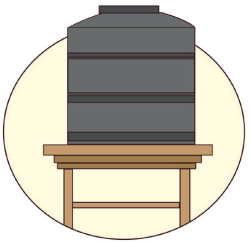
Match the activity with the duration of time it requires to get completed.



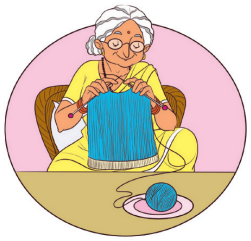
Cooking



Summer vacation



Filling a water tank

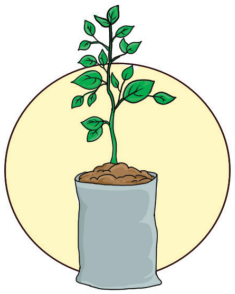


Knitting a sweater

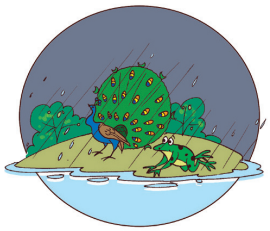




Playing



Seed to grow into a plant

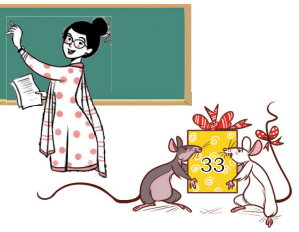


Change of season



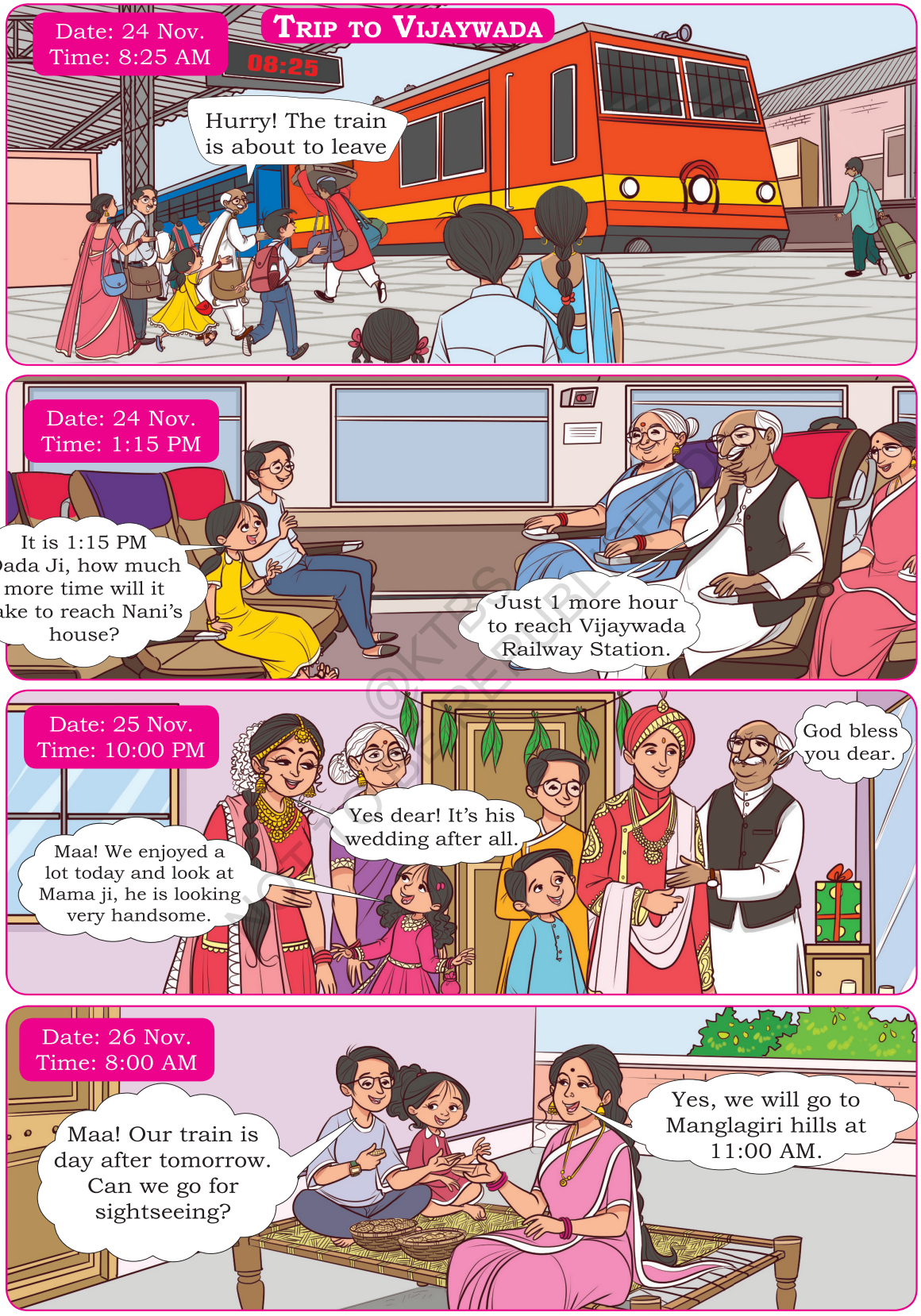
Yoga

Discuss the other things that take different durations of time to complete.

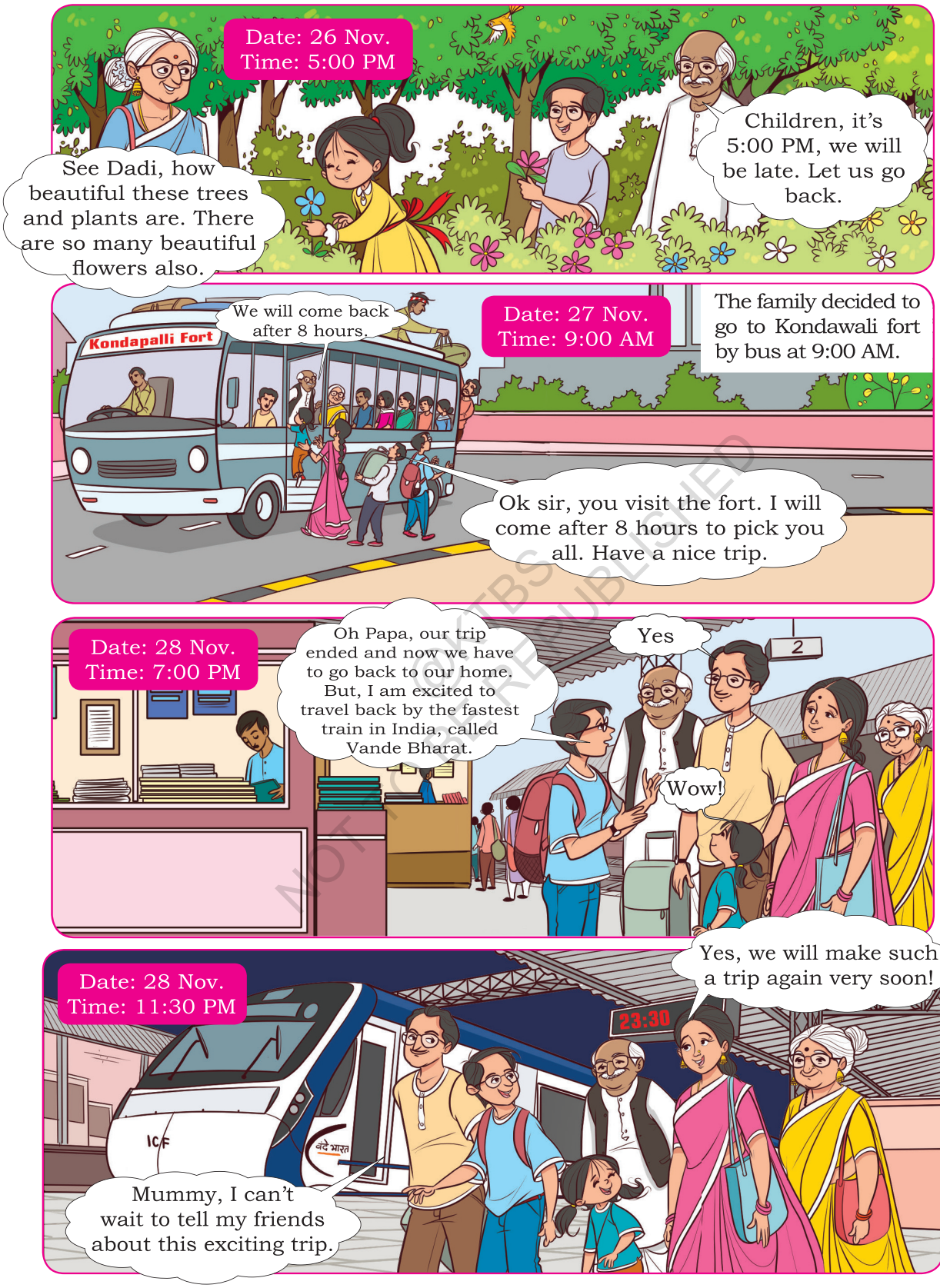


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Let us Talk

A. Why did the family plan a trip? To which place did they go for the trip? What did you like about their trip?

B. On which day did they begin their journey? When did they come back? How long was their trip?

C. Which places did they visit in their trip?

D. How long was their day trip in:

i. Manglagiri hills _____ hours

ii. Kondapalli fort _____ hours

When did they come back from there? _____

E. For how many hours were they in the train when going from—

i. Visakhapatnam to Vijaywada

_____ to _____

_____ hours

ii. Vijaywada to Visakhapatnam

_____ to _____

_____ hours

Which among the two journey took longer?

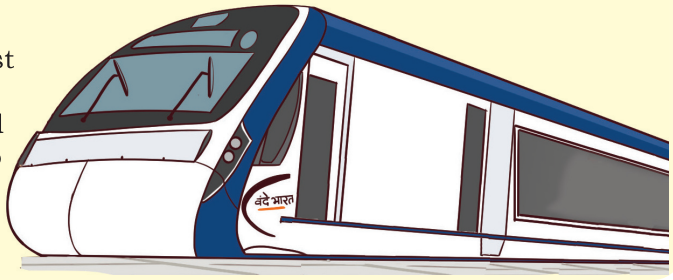
F. Have you been on a trip recently? What do you enjoy most about trips?



Amazing Fact

Do you know?

Vande Bharat is the fastest train in India. The train is designed in India only and is also India's first train to have an integrated engine and not a separate engine coach.



Talk with children about their travel experiences to familiarise them with the idea of duration in terms of days and hours. Also discuss what is special about their cities.





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Gargi's Day

Let us see what Gargi does in a day. Write down the time for each picture.



___ O' clock



Goes to sleep



6 O' clock



Wakes up



Draws water



7 O' clock



___ O' clock



Plays with friends



Gargi's day



Goes to school



___ O' clock



___ O' clock



Takes lunch



___ O' clock



Comes back home



Studies



___ O' clock

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Let us Talk

Look at the position of the short hand (hour hand) and long hand (minute hand), and observe at what time Gargi does these activities in a day.

A. At what time does she wake up? ____

B. When does she go to school? ____

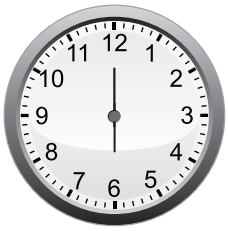
C. At what time does she have her lunch? ____



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Let us Do

A. Read the time on the clock.



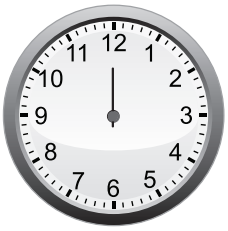
___ O' clock



___ O' clock

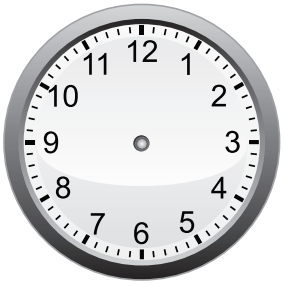


___ O' clock



___ O' clock

B. Draw hour hand and minute hand on the clock.



3 O' clock



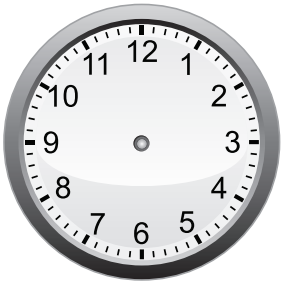
11 O' clock



4 O' clock



9 O' clock



12 O' clock



6 O' clock

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C. When do you do the activities shown below?

Mark them on the clock by drawing the hour hand and the minute hand.



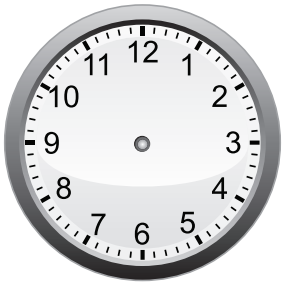
Study



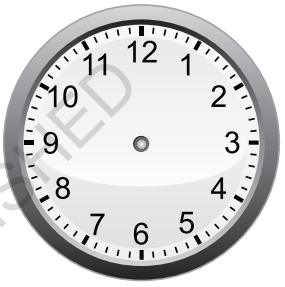
Play

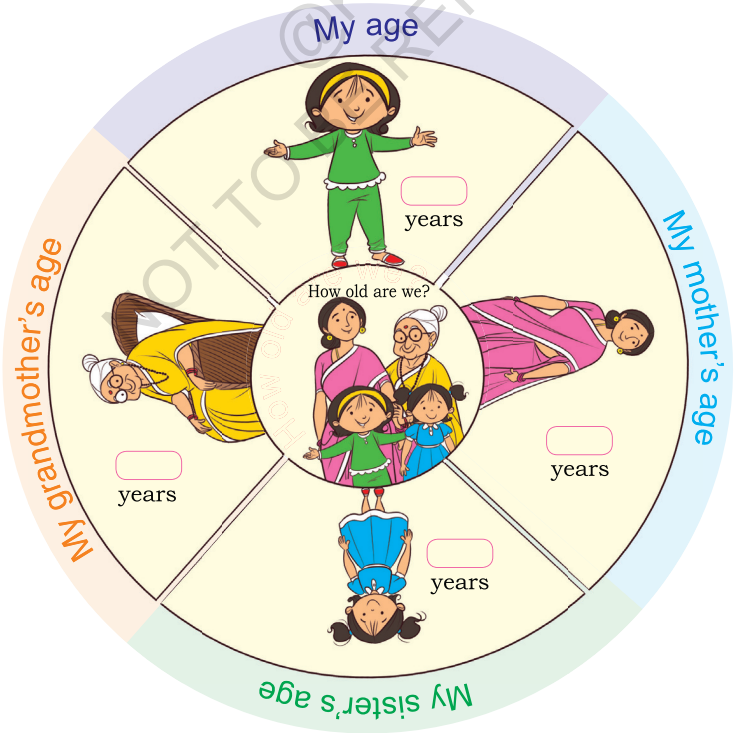


Lunch









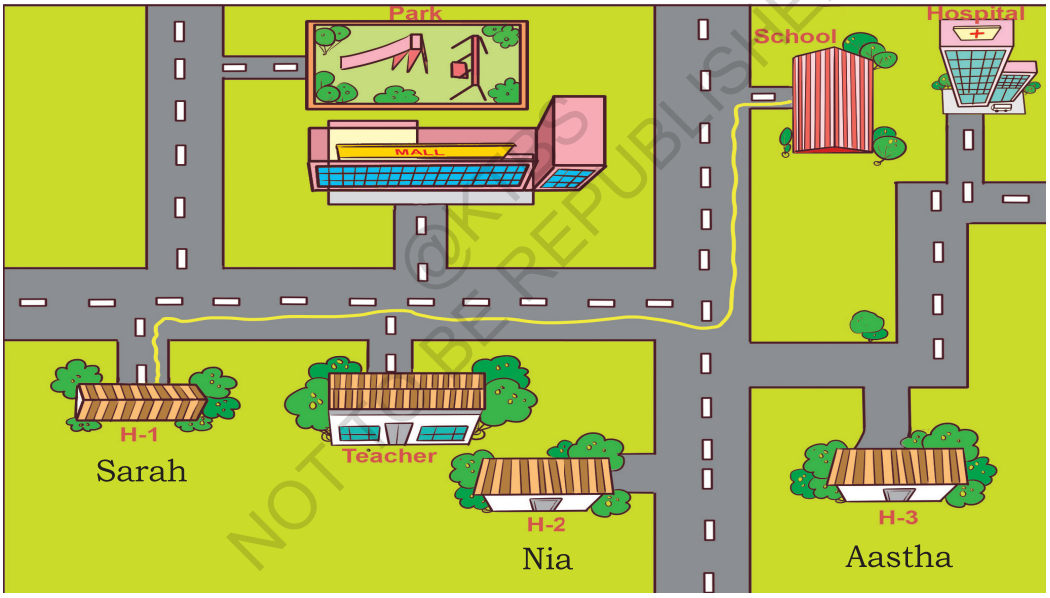
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09-06-2023 16:23:57

Ask a child to volunteer from the class. Blindfold him or her. Give directions to the blindfolded child to move from one spot to another (for example, move from the last bench to the blackboard). For directions use these words only— right, left, or straight.

The game will go on for 5–7 rounds with different children volunteering themselves. Ask the children to decide a safe word like 'danger' when one is about to get hit by objects in the classroom.

(To increase the difficulty level, you may change the setting of the classroom or keep harmless hurdles on the way).



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Sarah's Way to School

Green line is the path taken by Sarah to reach the school. Now draw a line with different colours to take Aastha and Nia from their home to the school.

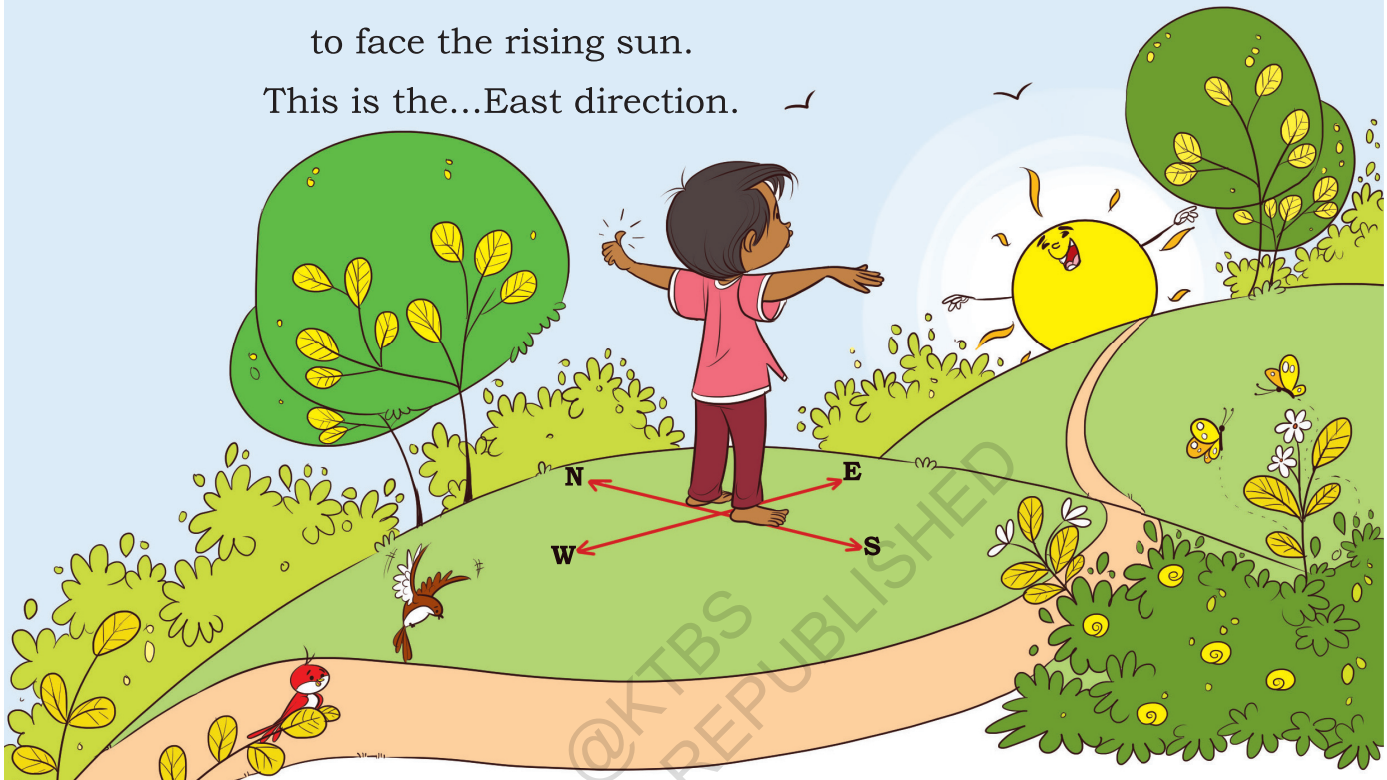
Discuss the use of mobile apps for navigation, i.e., for locating different places.



09-06-2023 16:23:58

East, West, North or South

Let us stand
to face the rising sun.
This is the...East direction.



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To your back you will find the West direction.
Put your left thumb out and that is North.
On your right is the direction South.
So, when we step out and move about,
we know which direction to go
East, West, North or South.

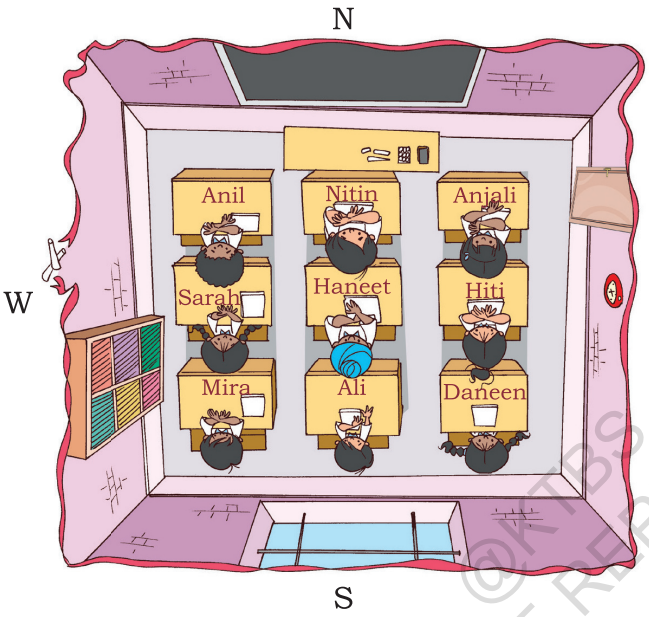
Sing the poem with actions. Help children to identify the directions. The direction must be emphasised by the teacher, and examples should be given to the children from their immediate surroundings so that they understand the spatial relevance of these words.

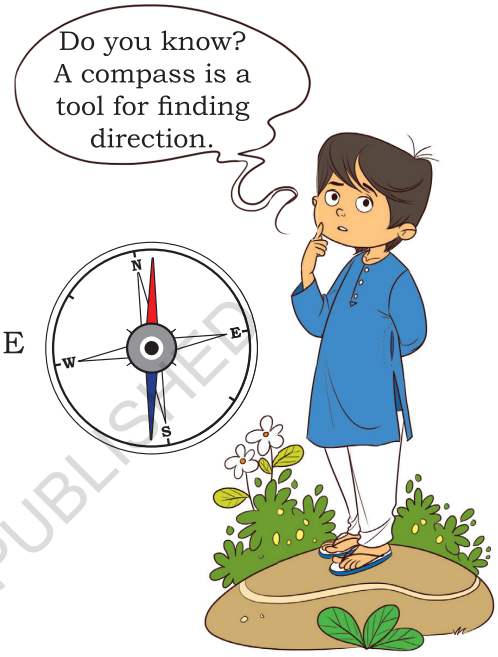


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Let us Do

Look at the classroom below and answer the questions by using the words North, South, East and West (refer to the compass).





A. Haneet's desk is to the _____ of Sarah's desk.

B. Almirah is to the _____ of Ali's desk.

C. To reach the blackboard, Mira must walk towards _____ and then _____.

D. To feed the birds on the window, Nitin has to walk _____ and then _____.

Discuss the compass and its usage. Also ask the children to use a compass to find out the directions of objects from different points of reference.



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10 Fun at the Fair

QRickit

0224CH10

Rupal loves going to the fair. She visits the local fair with her friends. Her mother gave her ₹50. She spent most of it on her favourite rides.



Talk about the things that children enjoy in fairs, whom do they go with, what do they buy and how much money do they spend there.



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How Much I Spent?

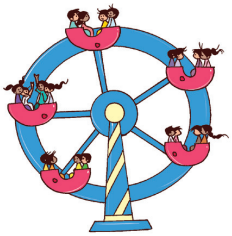




₹10









Total money spent on rides = ☐

Money given by Rupal's mother	–	Money spent	=	Money left with Rupal
☐		☐		☐

A friend of Rupal has ₹8 left out of ₹50. She wanted to know how much money she spent. Let us see her way of finding it.



₹8 is left with me and I have spent ₹20 on rides, which is ₹28. Then, I have spent ₹20 on snacks, which is ₹48 and I spent ₹2 more on candies, which is ₹50. Total, I have spent ₹42.

₹8 + **₹20** = ₹28

₹28 + **₹20** = ₹48

₹48 + **₹2** = ₹50

₹42

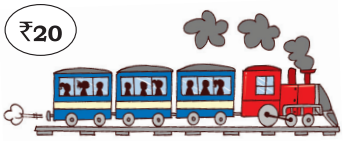
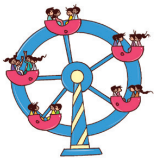
If you had ₹3 left when your father gave you ₹40 for the fair, how many rupees did you spend? Find out.

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Let us Do

A. How much money will be needed to buy?

Ride	Number of tickets	Money
₹20 	2	₹_____
₹10 	_____	₹30
₹15 	2	₹_____

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B. We saw different notes and coins used by Rupal and her friends. Let us look at the other commonly used Indian currency.



₹100



₹200

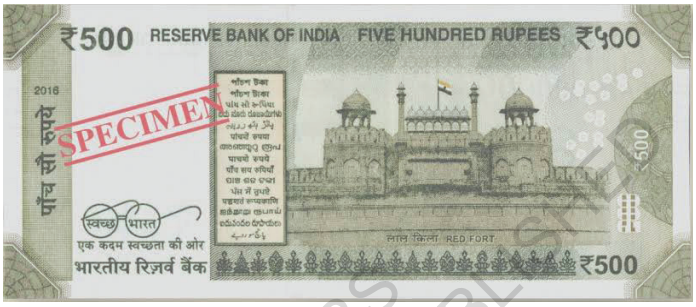


₹500

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C. Count the number of times ₹500 is written on a ₹500 note.





i. Five hundred rupees is written in words _____ times.

ii. 500 is written in number _____ times.



The picture of which monument is printed on the note of 500 rupees? Have you seen this monument?



Ask the children to observe other currency notes and discuss their features. Discuss with them the specifications, such as the lines on the border of the currency notes, and their number on each note for specially abled people.



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Tejal's grandmother showed her some old coins that she had not seen before. Let us have a look at these coins also.



25 Paise



50 Paise



10 Paise



20 Paise

Her grandmother used to pay 2 coins of 50 paise for 1 Rupee.



50 Paise

+



50 Paise

=



₹1

100 Paise = 1 Rupee

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A. How many 25 paise will make ₹1? Draw the coins in the box below.

= ₹1 or 100 paise

B. How many 20 paise will make ₹1?



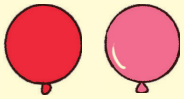
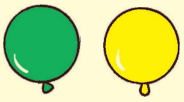
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Pop the Balloon

Matru comes across a 'Pop the balloon' game. He will get 3 chances for ₹10. Let us see how much money Matru wins.



A. How much money will Matru get if he popped the following balloons?

	₹3
	
	
	

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09-06-2023 17:37:28

B. Draw and colour the balloons, which he has to pop if he wants to get the following amount.

	₹17
	₹22
	₹31

C. Which three differently coloured balloons would you target to make the highest amount of money? Draw and colour them.

Total amount won =

D. If Matru had four chances, by popping which differently coloured balloons can he make the most money? Draw and colour them.

Total amount won =

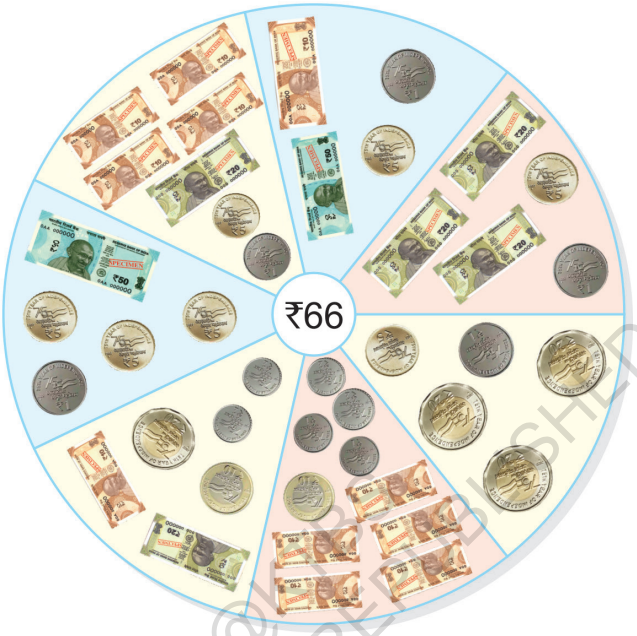


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Let us Do

Let us look at how ₹66 can be paid in different ways.



Make different combinations to make the given amount.

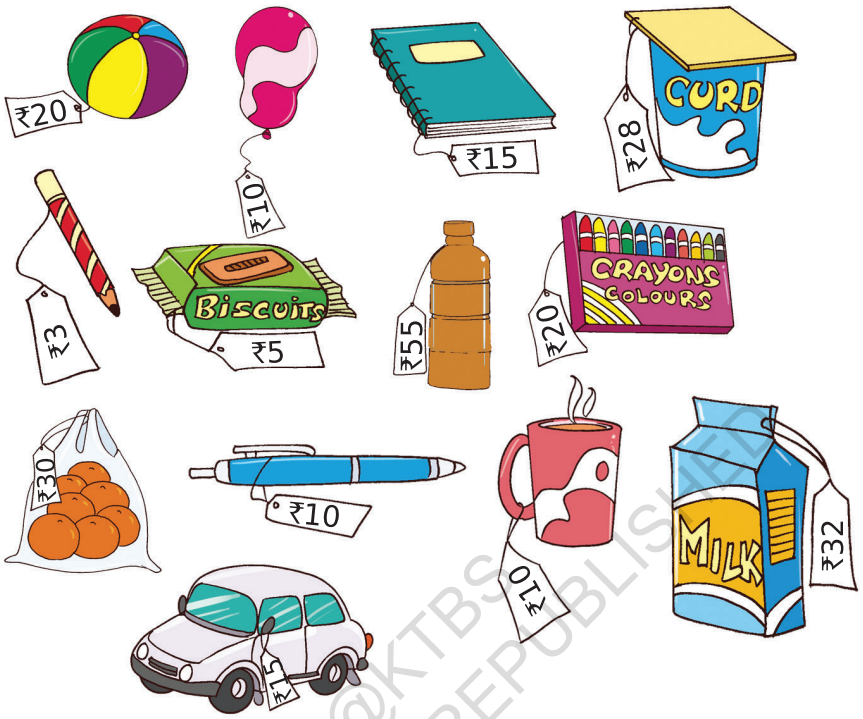
Amount	₹1	₹2	₹5	₹10	₹20	₹50
₹54	—	2	—	3	1	—
₹85						

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Let us Buy



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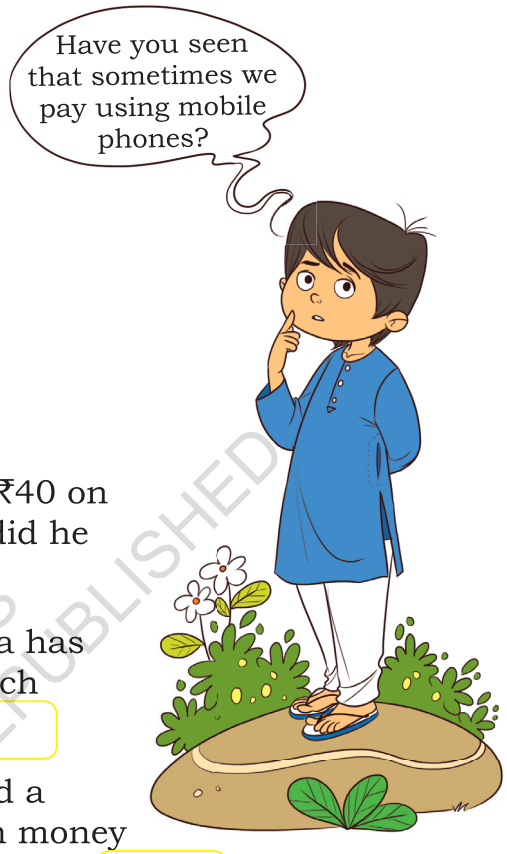
Items	Money needed to buy these items	Money you have	Money left/More money needed
	₹ _____		₹ _____
	₹ _____		₹ _____
	₹ _____		₹ _____





Let us Do

₹ 1 8		₹ 1 5	
+ ₹ 3 2		+ ₹ 2 7	
₹ 4 7		₹ 2 2	
+ ₹ 5 0		+ ₹ 3 5	



A. Jayant spent ₹25 on pens and ₹40 on notebooks. How much money did he spend in total?

B. Meera has ₹43 with her. Kanika has ₹14 more than Meera. How much money does Kanika have?

C. A packet of bread costs ₹30 and a chocolate costs ₹60. How much money does Vivek need to buy these items?

D. Ajay has ₹58 with him. He spent ₹48 in the market. How much money is left with him now?

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Project Work

Whenever you go to the market or shop with your parents, make a list of the things that you buy and the total money you spend.

Create more such contexts and ask questions whether children will add or subtract. Inculcate the value of saving money in the children through a discussion.





09-06-2023 17:37:29

11 Data Handling

QRickit

0224CH11

Favourite Colours



Let us Do

Look at the picture. Complete the table and fill in the blanks.

Colours	Red	Green	Blue	Yellow
Number of Children				

A. The most liked colour is _____.

B. The least liked colour is _____.

C. Yellow colour is liked more than _____.

D. _____ colour is liked more than green.

E. _____ colour is liked less than _____.

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Picnic Day

Children are having a fruit party. They are eating their favourite fruits.



Let us Do

Complete the table and fill in the blanks.

Fruits				
Number of Children				

A. How many children are there in the picture? _____.

B. Number of children who like apples is _____.

C. Most liked fruit is _____.

D. Least liked fruit is _____.

E. Number of children who like guava is _____ (more than/less than/equal to) the number of children who like apple.

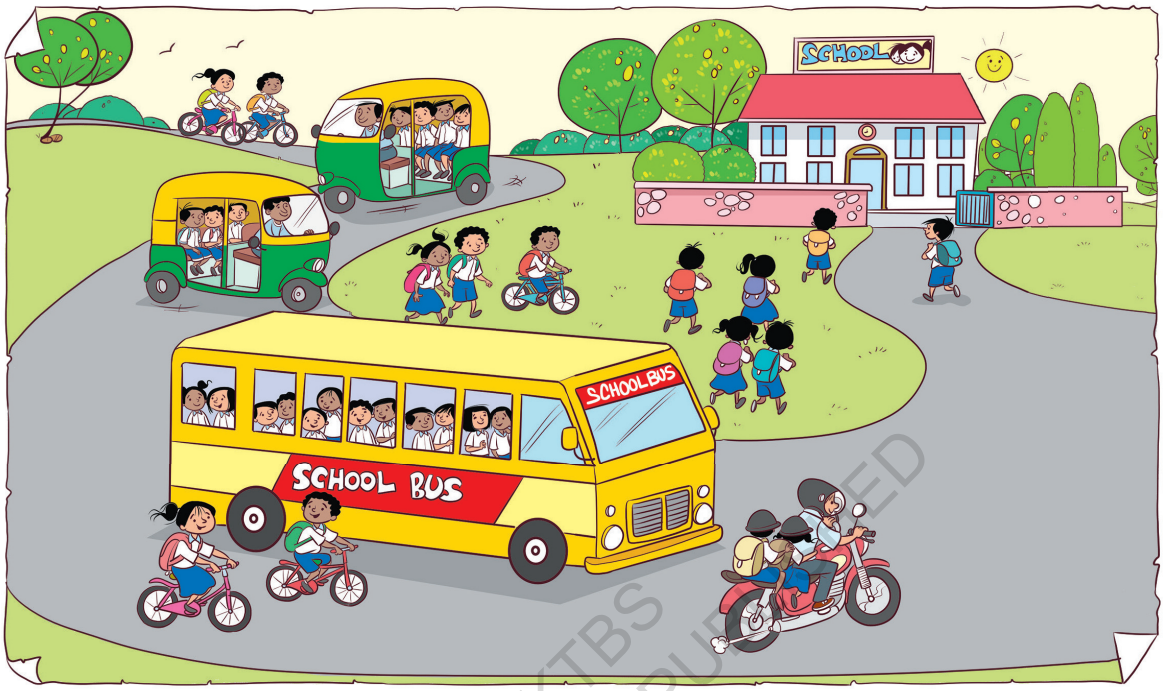
F. The number of children who like apple is _____ (more than/less than/equal to) the number of children who like banana.

G. The number of children who like orange _____ (more than/less than/equal to) the number of children who like kiwi.

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Discuss the picture and fill the table.



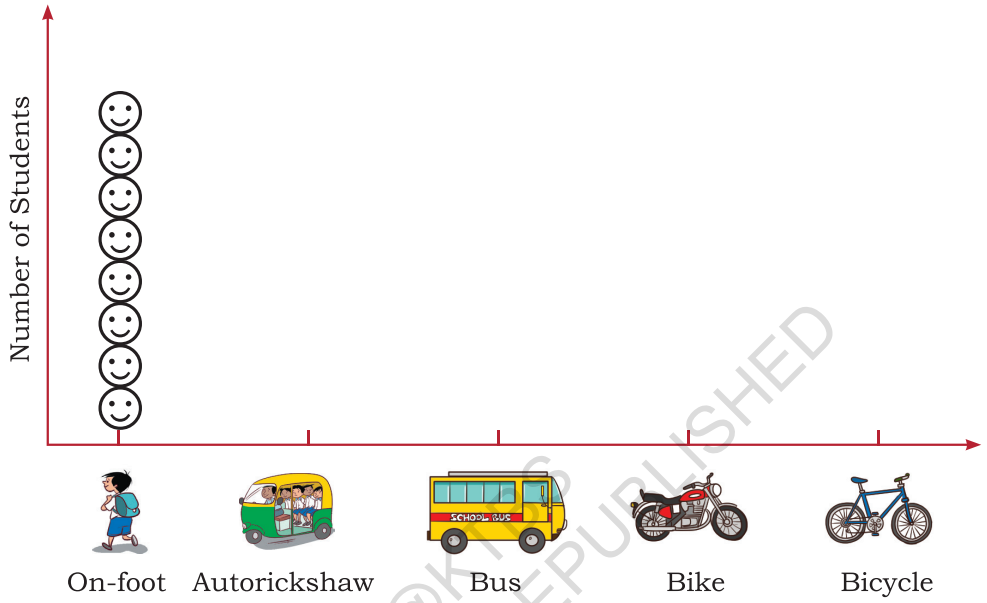
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Mode of coming to school	Number of students
	8
	
	
	
	

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Read the table and draw faces (☺) in the chart given below to show the number of students coming to school by different modes. (☺ = 1 student)

Look at the chart and fill in the blanks.



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A. Most number of students come to school by _____.

B. Least number of students come to school by _____.

C. The number of students who come to school using bus is _____ (less/more) than the number of students who come using autorickshaw.

D. The number of students who come to school using bike is _____ (more/less) than the number of students who come using bicycle.

E. The number of students who come to school using _____ is less than the number of students who come using _____.

F. The number of students who come to school using _____ is more than the number of students who come using _____.

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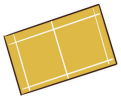
Games we Play





Let us Do

Look at the picture and fill the table.

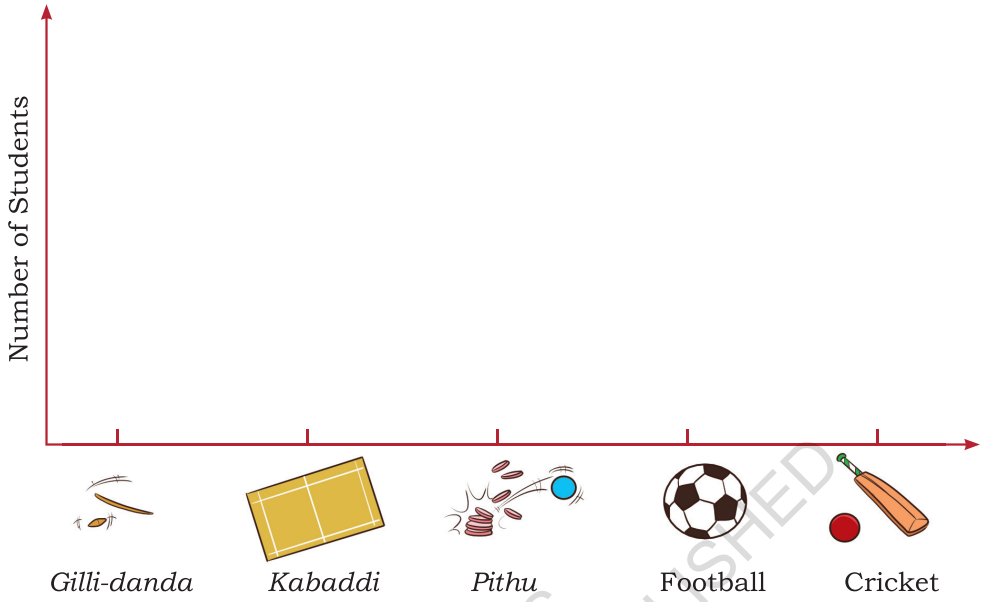
Games	Number of Students
	
	
	
	
	

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Use the table to draw faces (☺) to show the number of students in the chart below.



A. The most liked game is _____.

B. The least liked game is _____.

C. *Pithu* is liked more than _____.

D. _____ is liked more than football.

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Let us Do

A. Discuss in your class and ask your friends about the vegetables they like the most. Complete the table.

Vegetable they like				
Number of children				



09-06-2023 16:26:04

B. Read the table and fill in the blanks.

i. Most liked vegetable is _____.

ii. Least liked vegetable is _____.

iii. _____ is liked more than _____.

iv. _____ is liked less than _____.

C. Ask your friends about the number of family members living in their homes. Fill in the table given below.

i. Most families have _____ people in their homes.

ii. The least number of people living in a home is _____.

iii. The number of families having 4 people is _____.

iv. The number of families having more than 4 people is _____.

Number of people living together	How many families
1 People	
2 People	
3 People	
4 People	
5 People	
_____	
_____	

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Project Work

Visit nearby families to find out the number of families which have their grandparents living with them. Record the information to fill in the table.

Families living with	Both grandparents	Only female grandparents	Only male grandparents	No grandparents
Number of Families				

How many families did you visit?

Number of families living with both grandparents _____

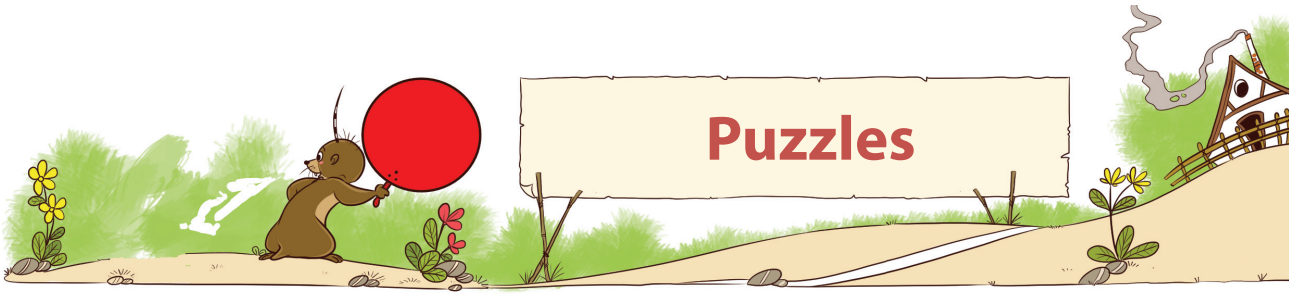
How many families live with one grandparent? _____

How many families live without grandparents? _____

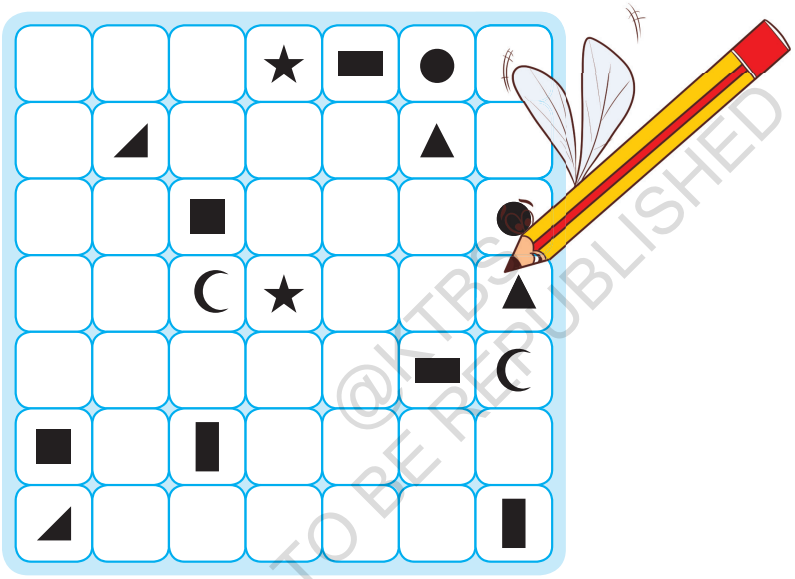
Before visiting the families, discuss the questions you are going to ask them in the class.



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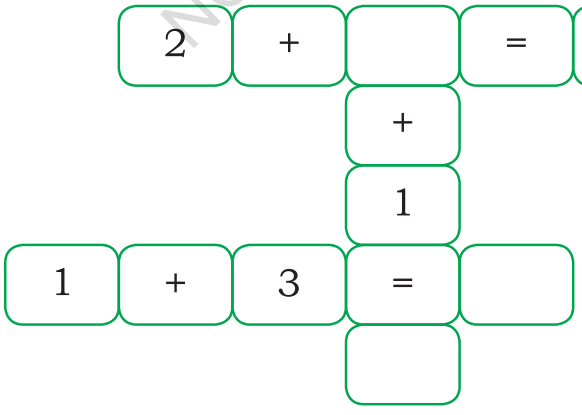


A. Draw lines to connect each pair of similar shapes together. The lines must not cross or touch each other and do not use diagonal lines.



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B. Complete the pattern.

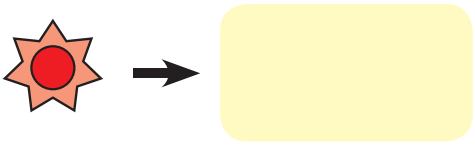


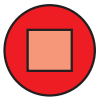


C. Think and complete.

i.





(a)  (b)  (c)  (d) 

ii. ੨ → 5

੯ →

7 →





D. Find the number.

Think of a number

Double that number

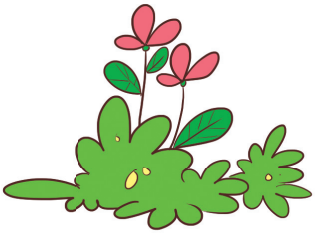
Add eight

Minus half of that number

Minus the number you started with

Is the number 4?

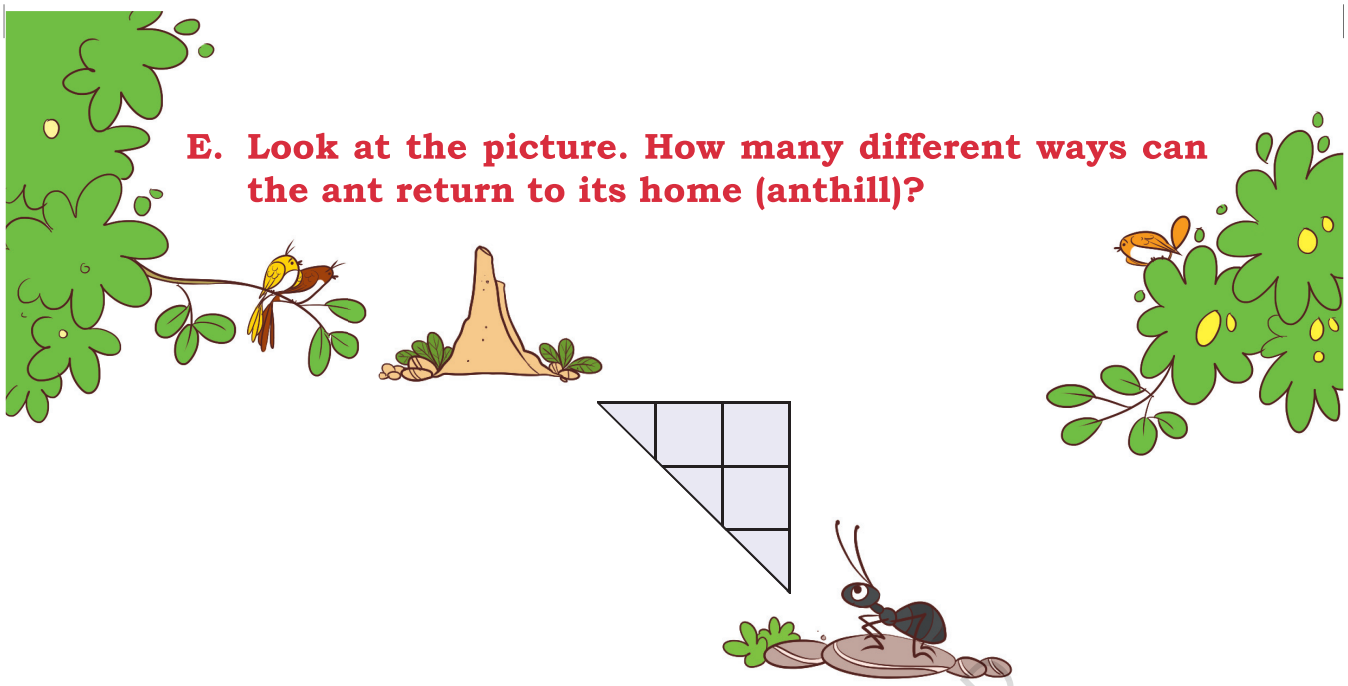
Now play this maths trick with your friends.





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E. Look at the picture. How many different ways can the ant return to its home (anthill)?



F. Find the number names from 11 to 20.

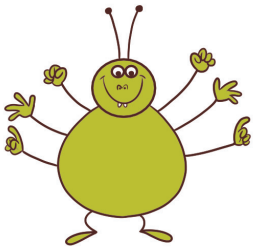
s	i	x	t	e	e	n	j	h	x	t
q	j	g	h	o	n	m	r	z	n	w
w	g	f	i	f	t	e	e	n	i	e
f	o	u	r	t	e	e	n	b	n	n
s	n	x	t	w	e	l	v	e	e	t
q	e	g	e	o	n	m	r	z	t	y
w	v	f	e	f	t	e	e	n	e	t
s	e	v	n	n	t	e	e	n	e	i
w	l	e	i	g	h	t	e	e	n	e
s	e	v	e	n	t	e	e	n	n	i

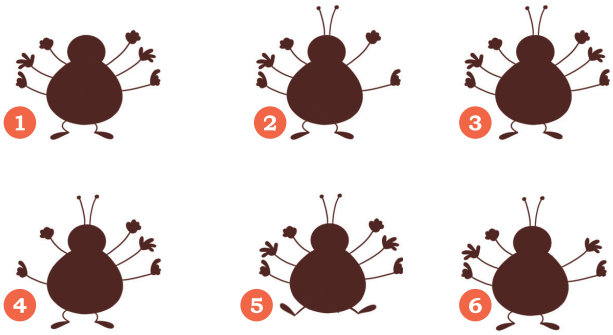
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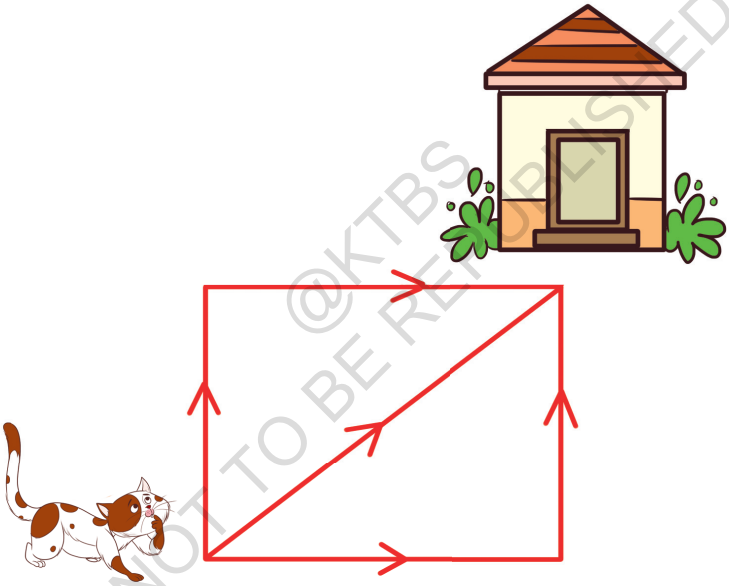
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G. Identify the appropriate shadow image.



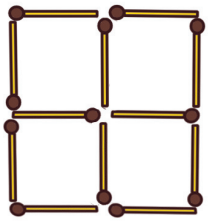


H. In how many different ways can the cat return to its house?



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I. Try to make two squares by removing two matchsticks.





J. Who am I?

I am in a bicycle,

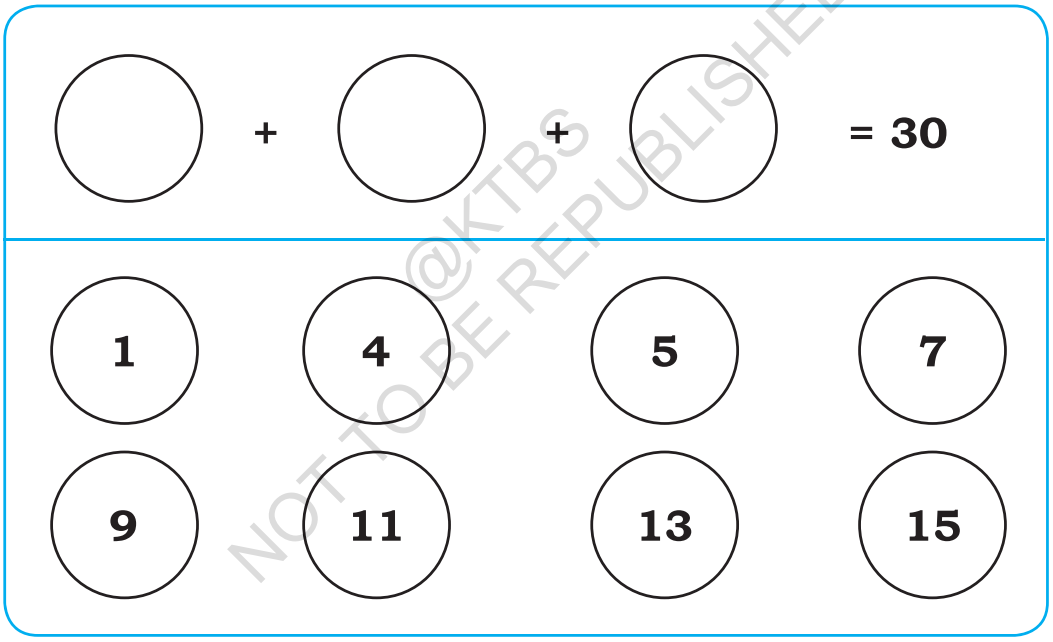
And in a car and a bus,

I make all vehicles run,

They can't move if I am flat.

What is my shape?

K. Which balls will you select to make a total of 30?



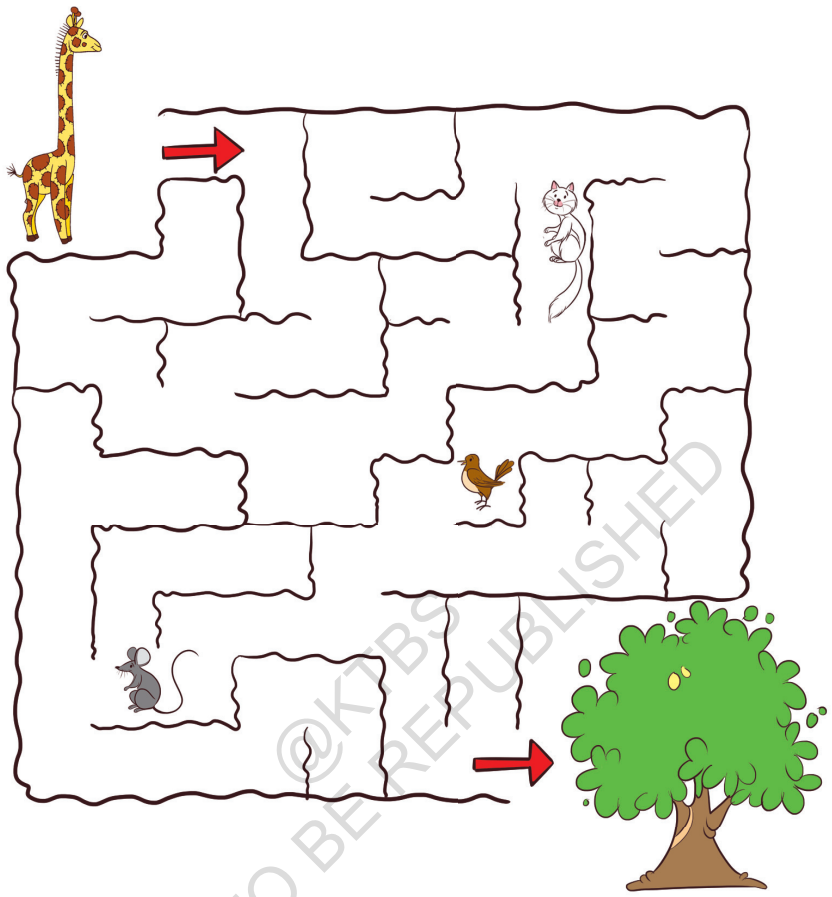
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L. Make two different two-digit numbers by using only one digit.



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M. Draw a path so that hungry giraffe can reach the tree.



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N. Look at the above picture and write the answers.

i. Name the animal whom giraffe met first on the path?

_____

ii. Name the animal whom giraffe met in the last?

_____

iii. Have you ever lost your way to home?

_____

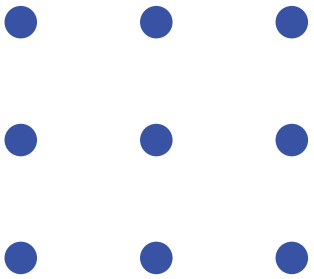
iv. What do you do to remember your way to home?

_____



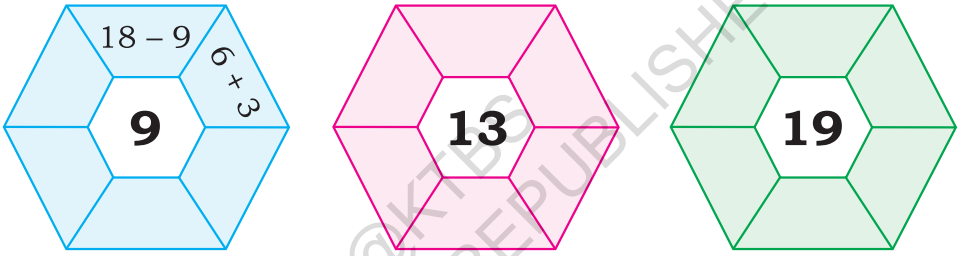
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O. How many rectangles can be made after joining the dots given below?



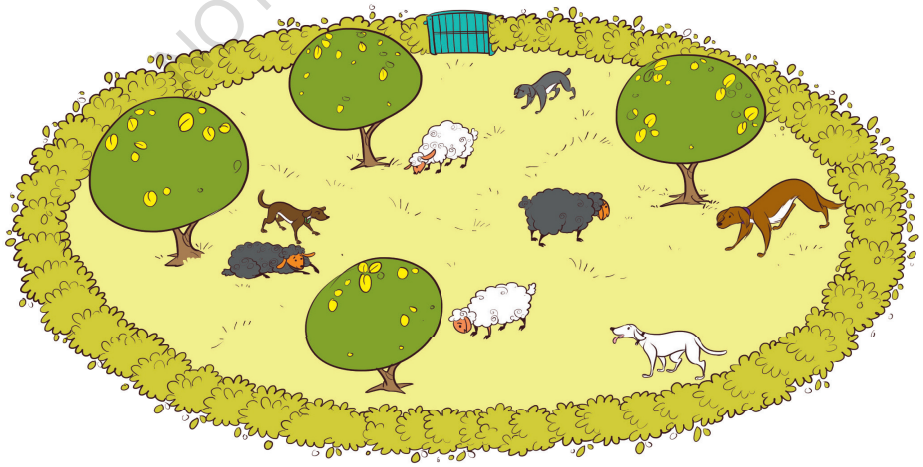
Hint: Square is also a type of rectangle.

P. Complete these by using addition or subtraction of numbers.



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Q. A shepherd has 4 sheep and 4 dogs. Divide the garden into 4 areas, such that each portion or area contains one tree, one sheep and one dog.





R. Who am I? (A mirror can help you)

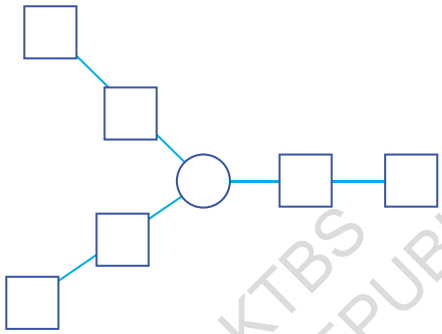
i. 

ii. 

iii. 

iv. 

S. How will you arrange the numbers 1 to 7 so that the three arms have the same total?



T. Let us divide a 6 meter long cloth into pieces. If one meter is cut every time, how many times should we cut it?

U. I think of a number and double it. If my answer is 18, then what was the number?

V. Press 10 keys on a calculator to make 28.



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Notes

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