

Class

2

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SCHOOL



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In response to the tremendous response and numerous feedbacks received from teachers and students, we feel great pleasure to bring out this new edition titled **New Composite Mathematics** for LKG to Class 5.

As you are well aware, the primary classes form the foundation of a student's knowledge. It is at this very level that a child grasps the fundamental concepts of mathematics, which he/she goes on to apply to all sorts of fields in higher classes. It, therefore, becomes essential to make him/her understand these concepts very clearly.

The latest syllabus prescribed by NCERT stresses on practical approach to studies, so that the child can learn the basic concepts from things around him/her. Further, the concept of CCE (Continuous and Comprehensive Evaluation) introduced by CBSE seeks to test the knowledge of basic concepts of a child through objective type, very short answer and short answer questions supported by 'fill in the blanks' and 'true/false type' questions.

This new edition of the book is fully in accordance with the principle of CCE.

The salient features of the book are:

- Completely redesigned and re-illustrated.
- The theory is presented in a very simple language and supported with examples from everyday life.
- Adequate number of questions for practice have been given in exercises to enable child to have sufficient drill on each topic.
- The section called 'Activity Time' in each chapter contains relevant Maths Lab Activities, Fun Activities and Projects.
- A section called 'CCE Drill' with two parts has been added to each chapter.
 - (a) **Question Bag 1** consisting of Multiple Choice Questions.
 - (b) **Question Bag 2** consisting of a Self Assessment Test in which short answer questions, true/false questions and fill in the blanks have been given.

Suggestions for any improvement in the book are always welcome.

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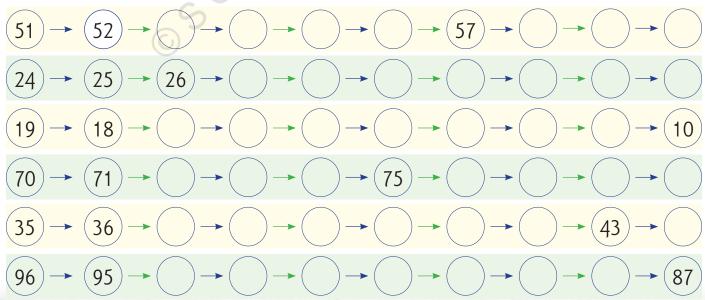
Revision (Numbers 1 to 100)



Fill in the missing numbers.

(1					/	7	/	,	, , , , , , , , , , , , , , , , , , ,
		,(15			,(),		
\(\frac{1}{2}\)		,			,			29	
) 		,;======\ \ \	34		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,;====== ,	1
		,(,		48	,	1
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		,(,(),	,(),	60
		,			66		,	,	1
\	72	,					/·\	/\ 	1
		,				87			1
\(\frac{1}{2}\)		93							1

Fill in the missing numbers by counting forward or backward.



Numbers and Number Names

Write the numerals for the given number names.

Sixteen

Sixty-three

Forty-one

Fifty-eight

Seventy-nine

Fifty-four

Thirty

Nineteen

Thirty-seven

Twenty-eight

Forty-four

Ninety-five

Eighty-two

One hundred

Write the number names for the given numerals.

11

35

56

72

49

18

96

98

44

63

27

31

59

86

Before - After - Between

Fill in the placeholders.

is just before 60

91 is just after

is just before 71

60 is just after

is just before 89

49 is just after

is just before 96

57 is just after

is just before 32

83 is just after

46 is just before

is just after 30

69 is just before

is just after 93

81 is just before

is just after 79

50 is just before

is just after 58

99 is just before

is just after 71

The number which comes between 81 and 83 is

56 comes between

and

comes between 39 and 41

99 comes between

and



Comparison of Numbers

Encircle the smallest number in each row.

5	19	26	41	2
78	7	47	96	62
54	21	85	32	93
20	39	27	11	75
66	99	31	78	49



Encircle the greatest number in each row.

92)	33	1	45	29
21	52	34	59	68
36	13	91	9	10
37	87	60	57	17
43	28	79	56	72

Ascending and Descending Orders

Arrange the numbers in ascending order.

$$63, 81, 29, 13, 75 \Rightarrow$$

$$39, 45, 92, 24, 53 \Rightarrow$$

$$17, 88, 37, 66, 99 \Rightarrow$$

$$46, 61, 68, 70, 48 \Rightarrow$$



Arrange the numbers in descending order.



28, 81, 57, 95, 70 \Rightarrow

40, 14, 58, 8, 36 \Rightarrow

77, 33, 22, 11, 55 ⇒

5, 49, 23, 72, 87 ⇒

Expanded Form and Short Form

Write the numbers in the expanded form.

$$67 = 6$$
 tens and 7 ones = $60 + 7$

$$59 =$$
 tens and ones $=$ $+$

$$73 =$$
 tens and ones $=$ $+$

$$36 =$$
 tens and ones $=$ $+$



Write in short form.

5 tens and 3 ones =
$$(50)$$
 + (3) = (53)



Addition

Add:

T 0 2 + 3

T O 5 + 6

T O 3 + 5

T O 7 + 9

T O 4 + 5

T O 9 + 3

T 0 2 + 6

T 0 8 + 4

Solve the following.

1. Kunal has 3 sweets. Anju gives him 6 sweets more. How many sweets does Kunal have now?



- 2. There are 4 apples and 3 mangoes in a basket. How many fruits in all are there in the basket?
- **3.** Renu had 7 pencils. She bought 5 more pencils. How many pencils does Renu have now?

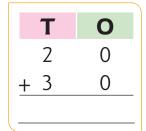


There are 9 boys and 8 girls in a class. How many students are there in the class?

Add:

T	0
3	6
+ 4	2

T	0
1	7
+ 4	2



T	0
3	3
<u>+</u> 5	6

T	0
7	8
+ 2	1 (

T	0
6	0
+ 2	6

T	0
2	3
+ 3	5
	-

Solve the following.

1. There are 43 mango trees and 21 apple trees in a park. How many trees in all are there in the park?



- 2. A farmer has 26 cows and 33 buffaloes on his farm. How many cattle are there on the farm?
- **3.** Anil had 14 stamps. His friend gives him 52 stamps more. How many stamps has he now?

Subtraction

Subtract:

T	0
	9
	4

T	0
	8
	6

T	0
1	7
	5

T	0
1	9
	7

T	0
6	7
_ 4	2

Solve the following.

1. Kapil had 16 eggs. 3 eggs were broken. How many eggs does Kapil have now?



- 2. Gopal had 37 balloons. He sold 15 balloons. How many balloons are left with Gopal?
- **3.** Rahul bought 79 toffees on his birthday. He gives 56 toffees to his friends. How many toffees does Rahul have now?



there are 48 pupils in a class. Out of these, 34 are boys. How many girls are there in the class?



Ordinal Numbers

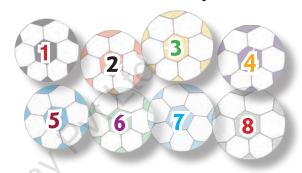


We count the number of objects like this.

One, Two, Three,...

The number on which our counting ends, tells us the number of objects.

Suppose we have a collection of footballs. We may count these footballs by labelling them as 1, 2, 3,...
Our counting ends at 8.
So, there are 8 footballs in the collection.



The numbers one, two, three,... which tell us the number of objects or items are called Cardinal Numbers.

Now, suppose six boys are standing in a queue in the school.



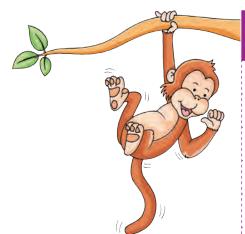
Ravi is the first boy in the queue; Samual is the second in the queue; Rajat is the third in the queue; Baljeet is the fourth in the queue; Irfan is the fifth in the queue; and Vikas is the sixth in the queue.



The numbers such as first, second, third,... which tell us the position of an object in a collection, are called Ordinal Numbers.

How to Represent Ordinal Numbers?

In figures, the ordinal numbers are indicated by counting numbers but we add two letters every time. The first, second and third are shown by adding the letters 'st', 'nd' and 'rd'. All the others are shown by adding the letters 'th'.



Ordinal Numbers	Representation
First	1st
Second	2nd
Third	3rd
Fourth	4th
Fifth	5th
Sixth	6th
Seventh	7th
Eighth	8th
Ninth	9th
Tenth	10th
Eleventh	11th
Twelfth	12th
•	•
•	•
·	•
Twentieth	20th



There are 26 letters in the English alphabet. These are given below.

A B C D E F G H I J K L M

N O P Q R S T U V W X Y Z

A is the first (1st) letter.

N is the fourteenth (14th) letter.

B is the second (2nd) letter.

o is the fifteenth (15th) letter.

C is the third (3rd) letter.

P is the sixteenth (16th) letter.

D is the fourth (4th) letter.

Q is the seventeenth (17th) letter.

E is the fifth (5th) letter.

R is the eighteenth (18th) letter.

F is the sixth (6th) letter.

s is the nineteenth (19th) letter.

G is the seventh (7th) letter.

T is the twentieth (20th) letter.

H is the eighth (8th) letter.

U is the twenty-first (21st) letter.

I is the ninth (9th) letter.

V is the twenty-second (22nd) letter.

J is the tenth (10th) letter.

w is the twenty-third (23rd) letter.

K is the eleventh (11th) letter.

X is the twenty-fourth (24th) letter.

L is the twelfth (12th) letter.

Y is the twenty-fifth (25th) letter.

M is the thirteenth (13th) letter.

Z is the twenty-sixth (26th) letter.

Look at the row-wise order in which pictures of animals and birds have been placed and fill in the blanks given below.



The cow is at eighth place.

The is at fifteenth place.

The tortoise is at _____place.

The rabbit is atplace.

The is at thirteenth place.

The cock is at _____ place.

The horse is at _____ place.

The is at sixth place.

The deer is atplace.

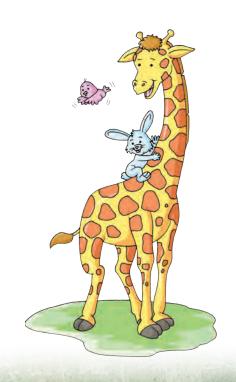
The is at first place.

The dog is atplace.

The goat is atplace.

The giraffe is at place.

The duck is at _____ place.



Fill in the bl	anks with co	rrect ordinal numbers	5.					
K is the	lette	r in the word CRICKET.						
A is the	the letter in the word ELEPHANT.							
R is the	lette	r in the word DAUGHTE	ER.					
D is the	letter	in the word BLACKBO	ARD.					
I is the	lette	r in the word CROCODI	LE.					
C is the	lette	r in the word GYMNAST	ΓICS.					
S is the	lette	er in the word MATHEM	ATICS.					
The vowels in	n the word BUN	NGALOW occupy the	,					
	and	places.	2					
Tuesday There are tv		Thursday in a year. January is t	Sunday aken as the first month					
of the year.	Write the po	sition of:						
May		August	November					
Observe the	e following pa	ittern.						
The fifth figu	re in the patteri	n is a	-•					

The twelfth figure in the above pattern is a



Three-Digit Numbers



In Class 1, we have read about numbers upto 99. We know how to read and write 2-digit numbers. We also know that:

The smallest 2-digit number is 10.

The greatest 2-digit number is 99.

Let us add 1 to 99.

$$99 + 1 = 9 \text{ tens} + 9 \text{ ones} + 1 \text{ one}$$

$$= 9 \text{ tens} + 10 \text{ ones}$$

$$= 9 \text{ tens} + 1 \text{ ten} = 10 \text{ tens}$$



The smallest 3-digit number is 100.



In a 3-digit number:

The first place from the right is the one's place.

The second place from the right is the ten's place.

The third place from the right is the hundred's place.

Thus, we have the following chart as shown below.

Hundreds	Tens	Ones
Н	Т	0

3-digit numbers start with 100 and proceed as follows.

Number	Numeral
One hundred one	101
One hundred two	102
One hundred three	103 and so on.



Number	Numeral
One hundred ten	110
One hundred eleven	111
One hundred twelve	112
One hundred thirteen	113 and so on.
One hundred twenty	120
One hundred twenty-one	121
One hundred twenty-two	122 and so on.
One hundred ninety-one	191
One hundred ninety-two	192
One hundred ninety-three	193 and so on.
One hundred ninety-nine	199
Two hundred	200
Further, we have:	An.
Two hundred one	201
Two hundred two	202
:	
Two hundred ten	210
Two hundred eleven	211
Two hundred twelve	212
	:
Two hundred twenty	220
:	
Two hundred thirty	230
:	
Two hundred ninety-nine	299
Three hundred	300
:	





This process of counting goes on till 999.

The greatest 3-digit number is 999.

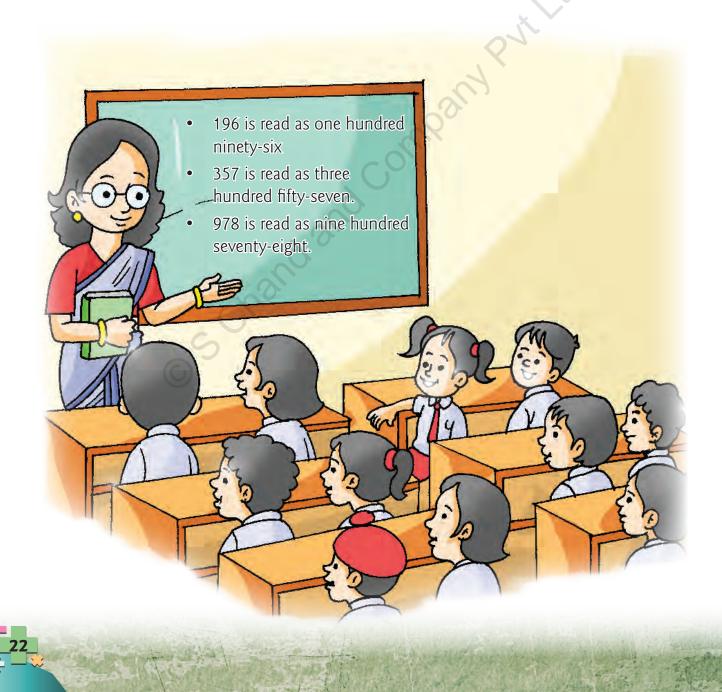
So, 3-digit numbers start with 100 and end at 999.

Thus, there are 900 three-digit numbers in all.

Number Names

A number name denotes how we read out a numeral.

To read a 3-digit number, we first read the hundred's place, followed by the number formed by the last two digits.



Numbers from 101 to 200

101	102					107			110
				115					
121							128		
	132								140
					146				
		153						159	
			164				168		
171						177			
				185		760			190
					196				200



Numbers from 201 to 300

201			80	205				210
		213					219	
			224					230
231					236			
	242					248		
		253					259	
				265				270
			274			278		
				285				
						298		

Numbers from 301 to 400

301			304				308			
	312								320	
				325						
		333							340	
	342					347				
					356					
			364					369		
371							378			
				385						
	392								400	

Numbers from 401 to 500

	401							408		
			413						419	
					425					
	431						437			
		442								450
				454						
			463					468		
	471					476				
State of the state								488		
			493							500

Numbers from 501 to 600

501			504					509	
301			504					309	
	512			515					520
521							528		
	532			535				539	
					546				
		553					558		
561						567			
				575					
			584						
	592							599	

Numbers from 601 to 700

601					606				610	
		613						619		
	622					627				
				635						
			644							
							658			
661										
				675						
					686					
								699		

Numbers from 701 to 800

701							708		
		713							720
				725				729	
			734						740
					746				
751							758		
	762					767			
				775					780
								789	
			794						
				1					

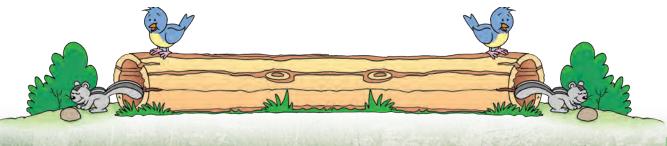
Numbers from 801 to 900

801							808	
				815				
		823						830
					836			
							848	
			854					
	862							
				875				
B		883						890
						897		

Numbers from 901 to 1000

Write all the numbers from 901 to 999 in the squares. See what comes after 999.

901					906				
			914					919	
						927	X	Ò	
	932								940
				945	and a				
951				60,			958		
		963							970
		S	974					979	
	982				986				
				995				999	1000



Numbers and Number Names

Write the numeral for each of the following. One has been done for you.

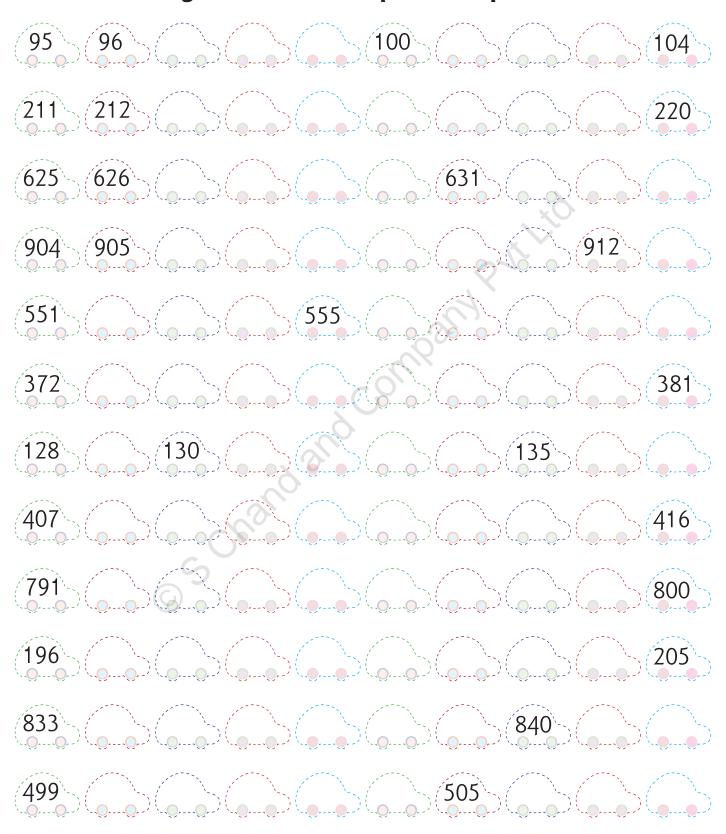
Write the manneral for each o	i the following. One has been done for you.						
Two hundred seventy-eight	278						
Nine hundred twenty							
Seven hundred seventeen							
Five hundred fifty-five							
One hundred sixty-six							
Four hundred forty							
Т	hree hundred ninety-two						
S	ix hundred eighty-three						
	Nine hundred fifty-nine						
S	Seven hundred sixty-four						
	Nine hundred eight						
E	Eight hundred one						
F	our hundred fifty						
One hundred one							
Five hundred eighty-eight							
Six hundred seven							
Seven hundred ten	The state of the s						
Four hundred nineteen							

Write the number name for each of the following. One has been done for you.

105	One hund	dred five	
168	0		
419	0		
346	0		
293	0		
921	0		
679	o		Met Market
802	o		
		715	
		467	
		250	·
		303	
S. C.		758	o
2000	was and	513	٥
-	m m m m	589	<u></u>
900	0		·
244			
637	<u></u>		
375	0		
999	0		
フフフ	0		

Counting – Breaks

Fill in the missing numbers and complete each pattern.



Before – After – Between

Write the number which comes just before:

172	173	400	610	909
	319	876	213	390
	100	411	530	778
	927	199	701	252

Write the number which comes just after:

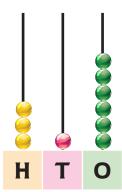
309	310	190	599	902	
414		269	801	144	
471		547	300	710	
989		665	237	999	

Write the number which comes in between:

399	400 401	715	717	630	632
833	835	444	446	257	259
136	138	590	592	109	111
701	703	655	657	900	902
777	779	122	124	311	313
508	510	239	241	997	999

3-digit Numbers on the Abacus

Look at the abacus shown here. It has three spikes showing Ones (O), Tens (T) and Hundreds (H) respectively, each having some beads.



How to Read a Number from an Abacus?

The number of beads in the hundred's spike shows the number of hundreds.

The number of beads in the ten's spike shows the number of tens.

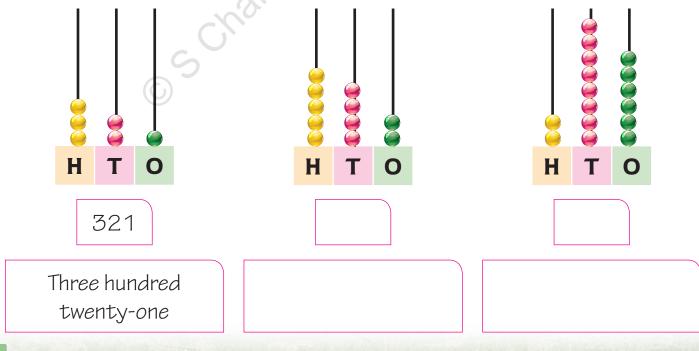
The number of beads in the one's spike shows the number of ones.

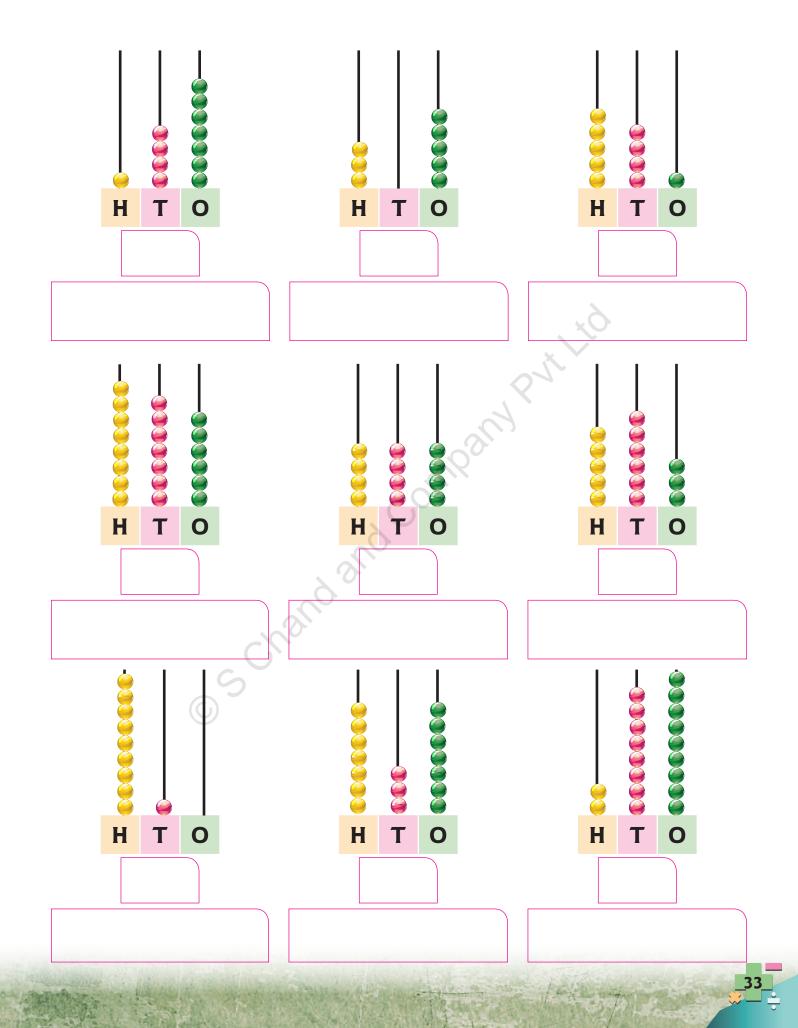
In the abacus shown above, there are 3 beads in the hundred's spike, 1 bead in the ten's spike and 6 beads in the one's spike.

So, the number has 3 hundreds, 1 ten and 6 ones.

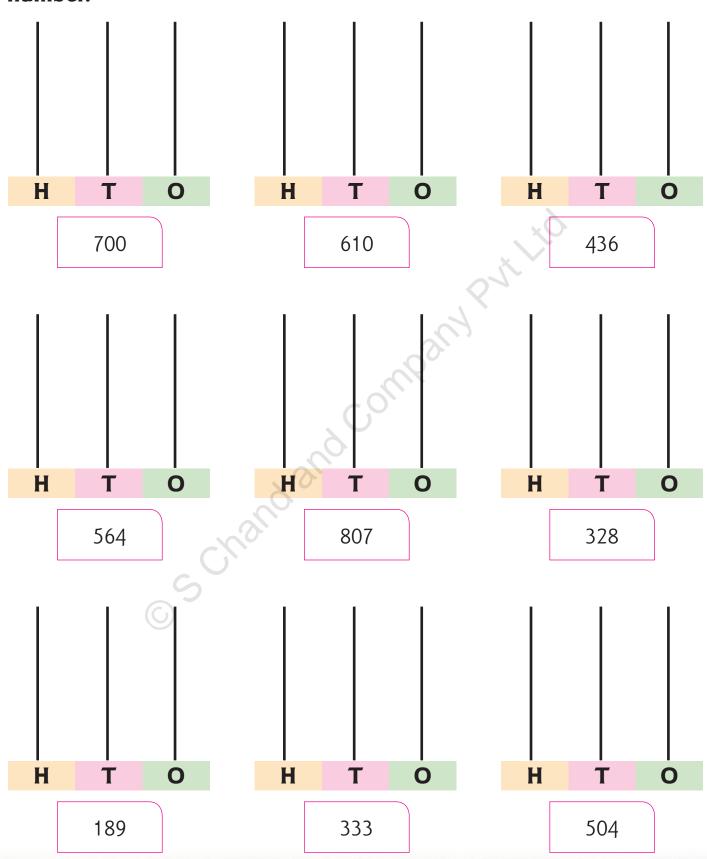
Thus, the number shown on the abacus is 316.

Read the numbers shown on the abacus and fill in the placeholders. One has been done for you.





Draw and colour the beads in each abacus to represent the given number.



Face Value and Place Value

Face Value

The face value of a digit in a number is the actual value of the digit, at whatever place it may be.

Thus, in the number 456,

the face value of 6 is 6.

the face value of 5 is 5.

the face value of 4 is 4.



Place Value

The value of a digit based on its place in a number is called its place value. Consider the number 632 in the place value chart as shown below.

Н	TO
6	3 2

Here,

the place value of 2 in 632 = 2 ones = 2,

the place value of 3 in 632 = 3 tens = 30 and

the place value of 6 in 632 = 6 hundreds = 600.

The place value of a digit changes, if its place changes.

So, in the number 263.

	_	
Н	ı	O
2	6	3

the place value of 3 = 3 ones = 3,

the place value of 6 = 6 tens = 60 and

the place value of 2 = 2 hundreds = 200.



Fill in the placeholders.

In 329, 3 is at the hundred's place	ce. Its place value is 300.		
In 537, 7 is at the place	ce. Its place value is		
In 916, 9 is at the place	ce. Its place value is		
In 973, 7 is at the place	ce. Its place value is		
In 825, 8 is at the place	ce. Its place value is		
Place value of 2 in 725 is	Place value of 1 in 471 is		
Place value of 7 in 679 is	Place value of 1 in 198 is		
Place value of 3 in 613 is	Place value of 5 in 532 is		
In the number 948:	In the number 375:		
In the number 948: Place value of 9 is	In the number 375: Place value of 3 is .		
Place value of 9 is .	Place value of 3 is		
Place value of 9 is Place value of 4 is Place value of 8 is .	Place value of 3 is Place value of 7 is		
Place value of 9 is Place value of 4 is .	Place value of 3 is Place value of 7 is		
Place value of 9 is Place value of 4 is Place value of 8 is .	Place value of 3 is Place value of 7 is Place value of 5 is		
Place value of 9 is Place value of 4 is Place value of 8 is In the number 106:	Place value of 3 is Place value of 7 is Place value of 5 is In the number 624:		

Expanded Form and Short Form

Consider a number 759.

We know that: 759 = 7 hundreds + 5 tens + 9 ones = 700 + 50 + 9

700 + 50 + 9 is the expanded form of 759.

759 is the short form of 700 + 50 + 9.



Write each of the following in expanded form.

Write each of the following in short form.

Comparison of Numbers

To compare two given numbers means to find which of the two numbers is greater or less than the other.

Rule 1:

If a number has more digits than the other, it is the greater of the two.

Let us compare 98 and 201. 98 has 2 digits while 201 has 3 digits. So, 201 > 98.



Rule 2:

If two numbers have the same numbers of digits, then

- 1. compare the digits on the extreme left (one's digit in 1-digit numbers, ten's digit in 2-digit numbers and hundred's digit in 3-digit numbers). The number with greater such digit is the greater of the two.
- 2. if the extreme left digits are same, compare the next digits to its right, and so on.

Let us compare 612 and 485.

Both the numbers have 3 digits.

At the hundred's place 6 > 4.

So, 612 > 485.



Next, let us compare 547 and 574.

Both the numbers have 3 digits.

The hundred's digit is 5 in both the numbers. So, we compare their ten's digits – 4 in 547 and 7 in 574.

And, 4 < 7. So, 547 < 574.

Finally, let us compare 638 and 632.

Both the numbers have 3 digits.

The digit at the hundred's place is 6 in both the numbers. So, we compare their ten's digits.

The digit at the ten's place is 3 in both the numbers.

So, we compare their one's digits -8 in 638 and 2 in 632. And, 8 > 2. So, 638 > 632.



Compare the numbers and put the symbol >, = or < in the placeholder.

			20755
86	103	200 198	637 673
340	344	420 402	793 800
756	765	681 718	498 510
585	885	829 928	370 307
657	649	830 880	99 999
946	964	261 181	340 348
703	699	325 353	738 738
577	755	482 468	393 339
840	839	909 990	506 509
538	583	613 630	482 468

Put a ring around the smallest number in each row.

439	394	493	349	419
706	670	607	760	577
856	658	685	586	568
617	716	176	96	167
937	973	793	379	739
564	654	456	546	465
440	404	517	751	375
719	801	910	917	791
650	405	456	560	465
382	279	728	189	602
593	539	359	395	319
630	429	392	293	360
531	315	351	153	135
735	588	219	375	587

Put a ring around the greatest number in each row.

316	613	631	361	711
495	549	945	594	954
786	678	687	768	759
469	694	496	946	964
123	321	231	412	402
754	457	547	745	750
903	815	851	930	913
664	461	616	641	646
392	294	403	340	923
567	657	576	675	756
766	676	776	767	770
291	129	219	229	279
727	772	713	731	723
639	963	946	936	693
118	289	567	481	962

Ascending and Descending Orders

Rearrange in ascending (increasing) order.

259 , 648, 175, 312, 840, 468 ⇒ 175 259 312 468 648 840
--

385, 712, 456, 721, 654, 465
$$\Rightarrow$$

421, 241, 124, 412, 441, 414
$$\Rightarrow$$

635, 563, 653, 356, 365, 568
$$\Rightarrow$$

Rearrange in descending (decreasing) order.



520, 479, 602,	, 398, 501,	497	⇒602	2 520	501	1 497	7 479	398
367, 419, 276,	, 637, 941,	206	\Rightarrow					
234, 423, 324,	, 196, 269,	342	\Rightarrow) (xC		
635, 536, 356,	, 563, 653,	538	\Rightarrow					
159, 519, 345,	. 256, 451,	591	\Rightarrow					
240, 360, 180,			○					
		79,						
678, 768, 876,			→					
710, 695, 170,	, 569, 471,	147	\Rightarrow					
179, 719, 397,	, 591, 419,	951	\Rightarrow					
210, 120, 220,	, 122, 202,	102	\Rightarrow					
546 456 645	654 465	564	\Rightarrow					



Even and Odd Numbers

Even Numbers

Suppose we have a collection of 8 toys.



Group these toys into pairs, that is sets of 2 toys each.



Is there any single toy left? No

So, 8 can be fully grouped into pairs.

Such numbers which can be fully grouped into pairs are called even numbers.

0, 2, 4, 6 and 8 are even numbers.

Numbers ending in 0, 2, 4, 6 and 8 are even numbers.

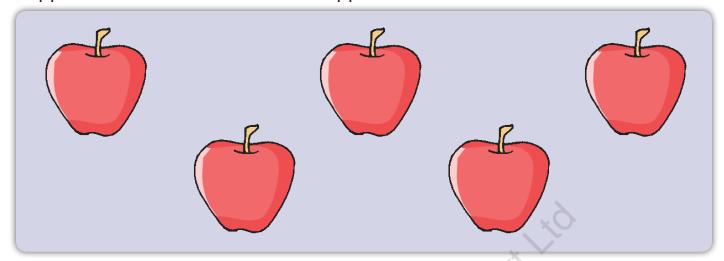
Thus, 10, 12, 24, 36 and 48 are all even numbers.



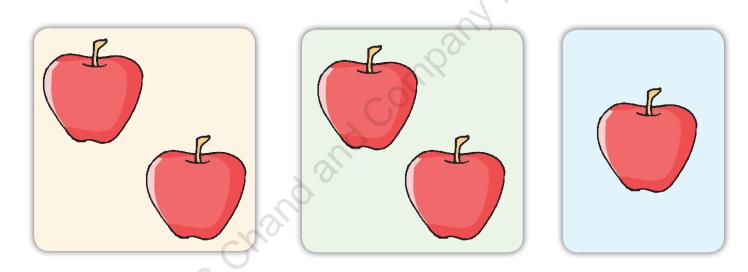


Odd Numbers

Suppose we have a collection of 5 apples.



Group these apples into pairs, that is sets of 2 apples each.



Is there any single apple left? Yes, one

So, 5 cannot be fully grouped into pairs.

Such numbers which cannot be fully grouped into pairs are called odd numbers.

1, 3, 5, 7 and 9 are odd numbers.

Numbers ending in 1, 3, 5, 7 and 9 are odd numbers.

Thus, 11, 13, 25, 37 and 49 are all odd numbers.

Ring the objects in pairs to find whether they are even or odd. Then count and write the number in the correct column. One has been done for you.

Even	Odd
	7

Encircle the odd numbers in each row.

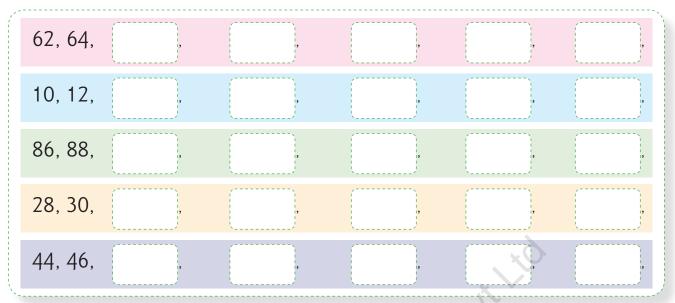
11	26	33	48	52	91
7	3	22	65	50	83
74	56	17	9	68	39
95	78	54	24	43	82
40	1	18	19	26	87
97	49	10	72	88	95



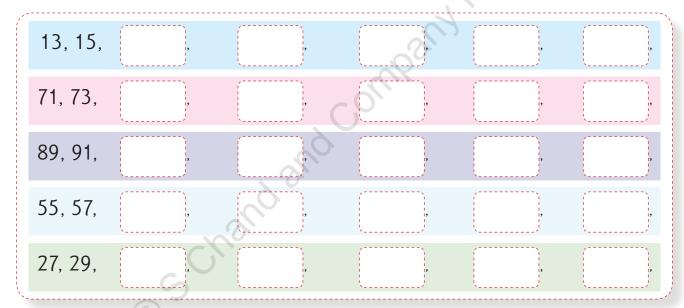


1000						
	20	33	8	47	16	94
	9	14	17	2	63	38
The state of the s						
	51	4	55	27	70	11
600						
Con the contract of the contra	19	66	26	49	59	84
1	44	34	25	83	42	6
10						
	73	50	29	92	77	41

Write the next five even numbers.



Write the next five odd numbers.



Write all odd numbers between 20 and 50.

Write all even numbers between 60 and 90.

Observe the following number chart.

101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

Clearly, all the numbers in the coloured boxes end in 2, 4, 6, 8 or 0. So, they are all even numbers.

The numbers in white boxes end in 1, 3, 5, 7 or 9. So, they are all odd numbers.

In each row colour the boxes containing the even numbers.

196	623	255	661	544	702	994	109	48	231
333	708	901	36	669	872	390	400	799	556
557	96	736	935	877	300	248	65	601	138
90	405	573	629	586	54	867	344	518	334
506	58	278	750	31	235	476	117	902	681
101	859	434	88	744	920	73	788	205	807
754	166	92	775	808	351	485	316	60	732
373	504	702	613	666	937	584	990	224	100





Addition of 1-digit Numbers

In Class I, we have learnt the simple addition of 1-digit and 2-digit numbers. Let us review what we learnt.

Count on your fingers and add.

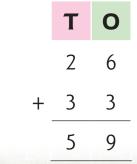
Add by drawing lines.

Simple Addition of 2-digit Numbers

Let us add 26 and 33.

Method:

Step 3: Add the tens.



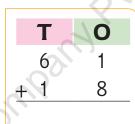
We may also add 3 numbers by the same method. Let us add 42, 23 and 14.

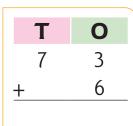
Step 1: Write in column form.

Step 2: Add the ones.

Step 3: Add the tens.

Add:





T	0
4	7
+ 5	1

Т	0
7	2
<u>+</u> 1	7

Addition using a 10×10 Grid

Adding Tens

To add tens to a number on a 10×10 grid, we move downwards from that number.

To add 10 (1 ten), we move 1 step downward.

To add 20 (2 tens), we move 2 steps downward.

To add 30 (3 tens), we move 3 steps downward and so on.

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

See the arrows and read the following additions.

Add using 10 × 10 grid.

T	0
2	3
+ 4	0

Adding Ones

To add ones to a number on a 10×10 grid, we move to the right and downwards from that number.

To add 1 to a number, we move 1 step to the right from that number; to add 2, we move 2 steps to the right, and so on.

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

See the arrows and read the following additions.

Add using 10×10 grid.

T	0
4	4
+	5

Adding Tens and Ones

To add a 2-digit number to another number on a 10×10 grid, we

- 1. split the 2-digit number into tens and ones;
- 2. move as many steps downward as is the number of tens; and
- 3. move as many steps to the right as is the number of ones.

Let us add 16 and 23.

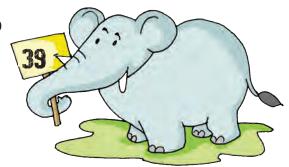
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

We have to add 23 to 16.

Step 1: 23 = 20 + 3 = 2 tens + 3 ones

- **Step 2:** Start from 16 and move 2 steps downward to add 2 tens. We get: 16 + 20 = 36.
- **Step 3:** From 36, move 3 steps to the right to add 3 ones.

We get: 36 + 3 = 39



The above sum can be shown as:

$$16 + 23 = 16 + 20 + 3$$

$$= 36 + 3 = 39$$

Similarly,

$$43 + 18 = 43 + 10 + 8$$

$$= 53 + 8 = 61$$

$$65 + 32 = 65 + 30 + 2$$

$$= 95 + 2 = 97$$



Using a 10×10 grid, add the given numbers and fill in the placeholders.



Addition of 2-digit Numbers (with Carrying)

Suppose we have to add 59 and 37.

We proceed stepwise as shown below.

Step 1: Write the given numbers in column form.



T	0
5	9
+ 3	7
A	

Step 2: Add the ones.

9 ones + 7 ones = 16 ones





T O 5 9 + 3 7 1 6

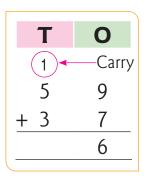
Step 3: Regroup the sum in the ones column.

16 ones = 10 ones + 6 ones

= 1 ten + 6 ones

Write 6 under the ones column.

Carry over 1 ten to the tens column.



Step 4: Add the tens.

1 ten (carried over) + 5 tens + 3 tens = 9 tens Write 9 under the tens column.



T	0
1	—Carry
5	9
+ 3	7
9	6

Hence, 59 + 37 = 96.

Now, let us add 48 and 25.

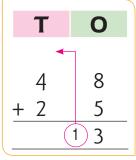
We may add them by the above steps as shown below.



T	0
4	8
+ 2	5





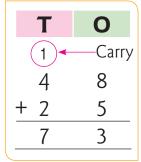


Step 3:

Т	0
1	—Carry
4	8
+ 2	5
	3



Step 4:



Hence, 48 + 25 = 73.

Addition by Short Method

Let us add 37 and 48.

We write the given numbers in column form and add columnwise.

T	0
1	—Carry
3	7
+ 4	8
8	5

Hence, 37 + 48 = 85.



Addition of Three Numbers

We can add 3 numbers also by the same method.

Let us add 37, 24 and 19.

We write the given numbers in column form and add columnwise.

0
—Carry
7
4
9
0

Hence, 37 + 24 + 19 = 80.



Add:

T	0
4	7
+ 3	6

T	0
3	4
+ 5	6

T	0
6	9
+ 2	8

T	0
4	9
+ 3	9

	T	0
	7	6
+	1	9
	0	

T	0
4	6
1	9
+ 2	8

T	0
4	5
3	6
+ 1	8

T	0
4	3
+ 4	8
· ,	

T	0
6	3
+ 2	8

T	0
5	1
+ 2	9

T	0
5	8
2	4
+ 1	7

T	0
3	7
3	6
+ 1	6



Addition of Bigger 2-digit Numbers

Let us add 79 and 56.

Step 1: Write the given number in column form.

Н	Т	0
	7	9
+	5	6

Step 2: Add the ones.

9 ones + 6 ones = 15 ones.

T	0
7	9
5	6
(1 5
	7

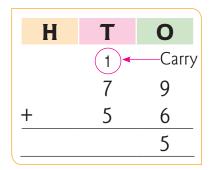
Step 3: Regroup the sum in the ones column.

15 ones = 10 ones + 5 ones

= 1 ten + 5 ones.

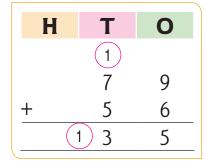
Write 5 under the ones column.

Carry over 1 ten to the tens column.



Step 4: Add the tens.

1 ten (carried over) + 7 tens + 5 tens = 13 tens.

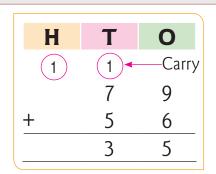


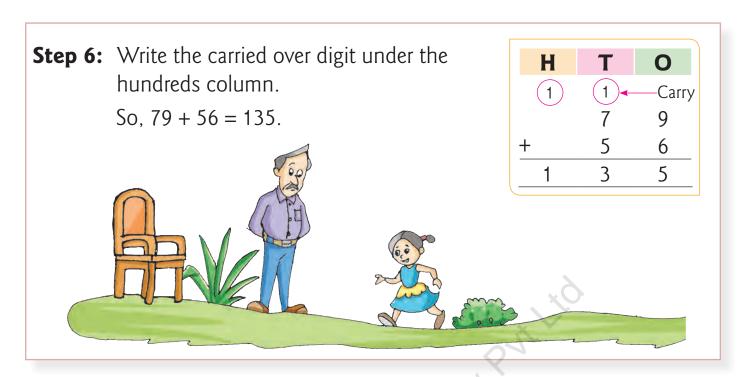
Step 5: Regroup the sum in the tens column.

13 tens = 10 tens + 3 tens

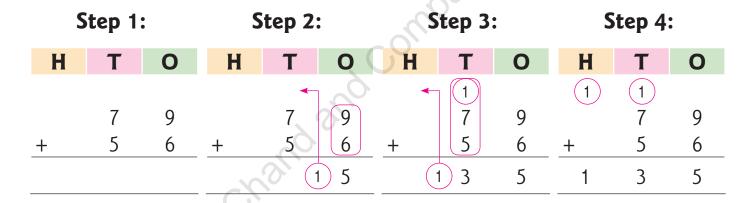
= 1 hundred + 3 tens.

Write 3 under the tens column and carry over 1 hundred to the hundreds column.





Short Method



Now, let us add 34, 52 and 97.

S	tep 1	•	S	tep 2	•	S	tep 3	•	S	Step 4	•
Н	T	0	Н	Т	0	Н	T	0	H	T	0
	3	4		3	4	•	1	4	(1)	1	4
	5	2		5	2		5	4		3 5	4 2
+	9	7	+	9	7	+	9	7	+	9	7
				1	3	1	8	3	1	8	3
			-				.,		-	-	

Add:

Н	T	0
	9	2
+	4	9

Н	T	0
	7	9
+	5	6

H	T	0
	5	6
+	6	5

Word Problems

There are 38 boys and 27 girls 1. in a class. How many pupils







- An ice cream vendor sold 29 2. ice creams on Monday and 58 on Tuesday. How many ice creams did he sell in two days?
- 3. parcel One has notebooks and another parcel has 89. How many notebooks are there in both the parcels?





- Class 2A has 28 children. class 2B has 33 and class 2C has 34. How many children in all are there in the three sections?
- Rohit collected 68 flowers in one **5**. basket, 55 in the second basket and 72 in the third basket. How many flowers did he collect altogether?



Addition of 3-digit Numbers (without Carrying)

Let us add 523 and 246.

We follow the steps shown below.



Step 1:

Write in column form.

	Н	T	0
	5	2	3
+	2	4	6

Step 2:

Add the ones.

	Н	T	0
	5	2	3
+	2	4	6
			9

Step 3:

Add the tens.

	Н	T	0
	5	2	3
+	2	4	6
_		6	9
_		-	

Step 4:

Add the hundreds.

	Н	T	0
)	5	2	3
F	2	4	6
	7	6	9

So, 523 + 246 = 769.

Now, let us add 101, 256 and 421.

We proceed stepwise as shown below.



Step 1:

Write in column form.

	Н	T	0
	1	0	1
	2	5	6
+	4	2	1

Step 2:

Add the ones.

	Н	T	0
	1	0	1
	2	5	6
+	4	2	1
			8

Step 3:

Add the tens.

	Н	T	0
	1	0	1
	2	5	6
+	4	2	1
		7	8

Step 4:

Add the hundreds.

	Н	T	0
	1	0	1
	2	5	6
+	4	2	1
	7	7	8

So,
$$101 + 256 + 421 = 778$$
.

Add:

H	T	0
3	5	1
+ 2	4	8

T	0
7	2
1	7
	T 7 1

Н	T	0
6	3	5
+ 2	5	4

Н	T	O/X
7	0	8
+ 1	7	1

Н	T	0
8	2	3
	5	4
<u>+</u> 1	0	2

Н	T	0
4	2	1
+ 2	7	3

Н	T	0
1	3	0
+ 7	0	5

Н	T	0
4	6	6
+ 5	2	3

Н	T	0
5	4	3
1	3	4
<u>+</u> 3	1	2

Addition of 3-digit Numbers (with Carrying)

Let us add 567 and 378. We follow the steps shown below.



Step 1: Write the given numbers in column form.

Н	T	0
5	6	7
+ 3	7	8

Step 2: Add the ones.

7 ones + 8 ones = 15 ones.

Н	T	0
5	6	7
+ 3	7	8
	(1) 5

Step 3: Regroup the sum in the ones column.

$$15 \text{ ones} = 10 \text{ ones} + 5 \text{ ones}$$

= 1 ten + 5 ones

Write 5 under the ones column.

Carry over 1 ten to the tens column.

Н	Т	0
	1	—Carry
. 5	6	7
+ 3	7	8
		5

Step 4: Add the tens.

Н	T	0
	1	
. 5	6	7
+ 3	7	8
	1 4	5

Step 5: Regroup the sum in the tens column.

$$14 \text{ tens} = 10 \text{ tens} + 4 \text{ tens}$$

Write 4 under the tens column.

Carry over 1 hundred to the hundreds column.

Н	T	0
1	1	—Carry
5	6	7
+ 3	7	8
	4	5

Step 6: Add the hundreds.

1 hundred (carried over) + 5 hundreds

+ 3 hundreds = 9 hundreds.

Write 9 under the hundreds column.

So,
$$567 + 378 = 945$$
.

H	T	0
1	1	
5	6	7
+ 3	7	8
9	4	5

Short Method

Step 1:

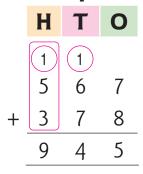
H T O

5 6 7 + 3 7 8 Step 2:

H T O

5 6 7 + 3 7 8 Step 3:

Step 4:



Now, let us add 521, 208 and 197.

Step 1:

H T O

5 2 1 2 0 8 + 1 9 7 Step 2:

H T O

Step 3:

Step 4:

Add:

Add:

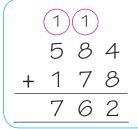
Н	T	0
3	4	7
1	5	4
+ 4	3	6



Word Problems

1. In an examination, 584 students passed and 178 failed. How many students appeared?







2. There are 288 apples in one basket and 174 in another basket. How many apples in all are there in the two baskets?



Ashul needs 475 rupees to pay his school fees and 187 rupees to buy exercise books. How many rupees does he need altogether?







A number is 256 more than 594. What is the number?



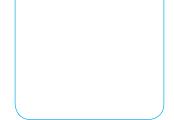
5. In an election, there were two candidates. One candidate got 319 votes and the other got 387 votes. How many votes were polled in all?





6. In a village, there are 456 men, 348 women and 175 children. How many people are there in all?







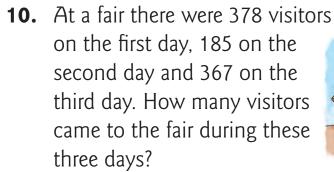
7. There are 169 mango trees, 243 guava trees and 56 jamun trees in an orchard. How many trees in all are there in the garden?

8. A fruit seller had 248 apples, 168 bananas and 394 oranges. How many fruits did he have in all?





9. In a library, there are 294 books in Hindi, 468 in English and 179 in Tamil. How many books in all are there in the library?

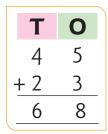






Order Property of Addition

Let us find the values of 45 + 23 and 23 + 45.



0
3
5
8



What do you observe?

$$45 + 23 = 68$$
 and $23 + 45 = 68$

So,
$$45 + 23 = 23 + 45$$

Now, let us find 68 + 57 and 57 + 68.

Н	T	0
	6	8
+	5	7
1	2	5

	0
5	7
6	8
2	5
	6



Again, we find that: 68 + 57 = 57 + 68. Thus, we can say:

Two numbers may be added in any order. The sum remains the same. This is the order property or commutative property of addition.

Fill in the placeholders.

$$7 + 5 = 5 +$$

$$52 + 47 = 47 +$$

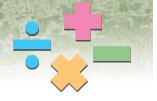
$$25 + () = 78 + 25$$

$$($$
 $)$ + 15 = 15 + 98

$$+52 = 52 + 7$$



Subtraction



In Class 1, we have learnt the subtraction of 1-digit and 2-digit numbers. Let us review the idea.

Let us subtract 32 from 79.

Step 1:

Write in column form.

T	0
7	9
_ 3	2

Step 2:

Subtract the ones.

T	0
7	9
_ 3	2
	7

Step 3:

Subtract the tens.

T	0
7	9
_ 3	2
4	7

So,
$$79 - 32 = 47$$
.

Subtract:

Subtraction using a 10×10 Grid

Subtracting Tens

To subtract the tens from a number in a 10×10 grid, we move upwards from that number.

To subtract 10 (1 ten), we move 1 step upward.

To subtract 20 (2 tens), we move 2 steps upward.

To subtract 30 (3 tens), we move 3 steps upward and so on.

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

See the arrows and read the following subtractions.

$$78 - 20 = \left(58\right)$$

$$42 - 30 = (12)$$

$$60 - 50 = (10)$$

$$93 - 60 = (33)$$

Subtract using a 10×10 grid.

T	0
8	2
_ 2	0

T	0
9	7
- 8	0

Subtracting Ones

To subtract the ones from a number on a 10 \times 10 grid, we move to $\stackrel{\text{\tiny def}}{=}$ the left and upwards from that number.

To subtract 1 from a number, we move 1 step to the left from that number; to subtract 2, we move 2 steps to the left and so on.



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

See the arrows and read the following subtractions.

$$56 - 3 = \left(53\right)$$

$$74 - 8 = 66$$

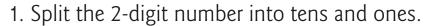
Subtract using a 10×10 grid.

T	0
5	2
_	6
	6

T	0
7	9
	4

Subtracting Tens and Ones

To subtract a 2-digit number from another number on a 10×10 grid.









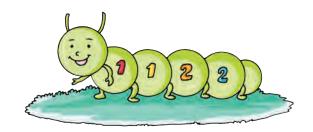
	,	,	,						
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Let us subtract 21 from 53.

Step 1: 21 = 20 + 1 = 2 tens + 1 one.

Step 2: Start from 53 and move 2 steps upwards to subtract 2 tens. We get: 53 - 20 = 33.







Step 3: From 33, move 1 step to the left to subtract 1 one.

We get: 33 - 1 = 32.

The above working can be shown as:

$$53 - 21 = 53 - 20 - 1$$

$$= 33 - 1 = 32$$

Similarly,

$$35 - 18 = 35 - 10 - 8$$

$$= 25 - 8 = 17$$

$$97 - 35 = 97 - 30 - 5$$

$$= 67 - 5 = 62$$



Using a 10×10 grid, subtract one number from the other and fill in the placeholder.

$$79 - 25 =$$

45 - 11 =

Subtraction of 2-digit Numbers (with Borrowing)

To subtract 46 from 93, we follow the steps shown below.

Step 1: Write the given numbers in column form.



	T	0
	9	3
_	4	6

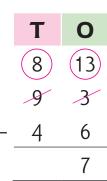
Step 2: Subtract the ones.

6 > 3. So, we cannot subtract 6 ones from 3 ones.

Borrow 1 ten, so that 8 tens are left.

1 ten + 3 ones = 10 ones + 3 ones = 13 ones.

13 ones - 6 ones = 7 ones. Write 7 under the ones column.



Step 3: Subtract the tens.

8 tens - 4 tens = 4 tens.

Write 4 under the tens column.



So, 93 - 46 = 47.

Short Method

Let us subtract 39 from 81.

Step 1:

Step 2:

Step 3:

	T	0
	7	11
	8	1
_	3	9
	4	2

So, 81 - 39 = 42.

Subtract. One has been done for you.

T	0
54	313
_ 2	8
2	5

T	0
4	1
_ 1	7

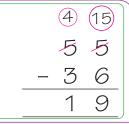
T	0
6	5
- 4	9

T	0
7	2
_ 5	3

Word Problems

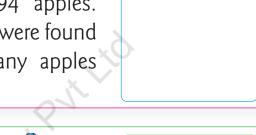
1. There are 55 students in a class. Of these, 36 are boys. How many are girls?







A fruit seller bought a basket having 94 apples. Out of these, 25 were found rotten. How many apples were good?



3. Pratham had 60 balloons. 26 of them blew away. How many balloons were left with him?







4. 90 students appeared in an examination. Out of these, 23 failed. How many students passed?



bus. 19 of them got down at a stop. How many passengers are left in the bus?







6. Divya had 80 rupees. She gave 54 rupees to her brother. How many rupees are left with her?

		- 1
		J
		_

7. Rehman has 82 cattle in his dairy farm. Of these, 56 are buffaloes and the remaining are cows. How many cows are there in his dairy farm?







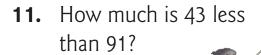
8. In a class, there are 61 students. On a rainy day, 24 remained absent. How many students were present on that day?

9. Renu bought 70 chocolates on her birthday. She distributed 46 to her friends. How many chocolates were left with her?





10. There are 64 workers in an office. 29 of them are women. How many men work in that office?



Subtraction of 3-digit Numbers (without Borrowing)

Let us subtract 265 from 697.

Step 1:

Write the numbers in column form.

Step 2:

Subtract the ones.

Step 3:

Subtract the tens.

Step 4:

Subtract the hundreds.

So,
$$697 - 265 = 432$$
.

Now, let us subtract 538 from 879.

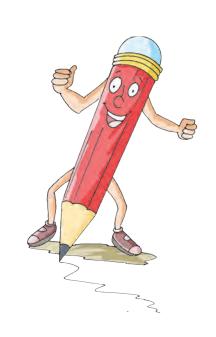
We write the numbers in column form.

First, we subtract the ones, then the tens and finally the hundreds.

Н	Т	0
8	7	9
_ 5	3	8
3	4	1







Subtract:

Н	T	0
9	5	4
-3	4	1

Subtraction of 3-digit Numbers (with Borrowing)

Let us subtract 368 from 514.

Step 1: Write the numbers in column form.

	Н	T	0
	5	1	4
_	3	6	8

Step 2: Subtract the ones.

8 > 4. So, we cannot subtract

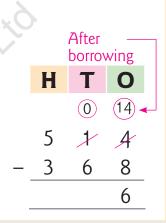
8 ones from 4 ones.

Borrow 1 ten, so that 0 tens are left.

1 ten + 4 ones = 10 ones + 4 ones = 14 ones

And, 14 ones - 8 ones = 6 ones

Write 6 under the ones column.



Step 3: Subtract the tens.

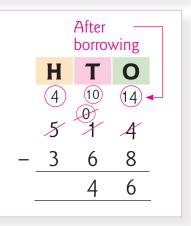
6 > 0. So, we cannot subtract 6 tens from 0 tens.

Borrow 1 hundred, so that 4 hundreds are left.

1 hundred + 0 tens = 10 tens + 0 tens = 10 tens.

And, 10 tens - 6 tens = 4 tens.

Write 4 under the tens column.

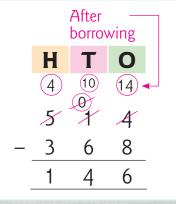


Step 4: Subtract the hundreds.

4 hundreds - 3 hundreds = 1 hundred.

Write 1 under the hundreds column.

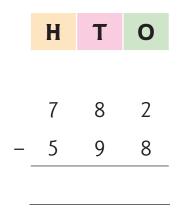
So, 514 - 368 = 146.



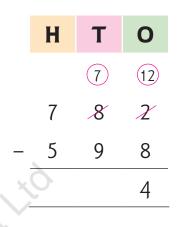
Short Method

Let us subtract 598 from 782.

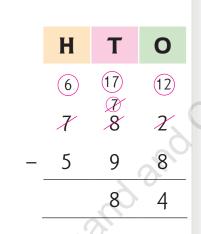
Step 1:



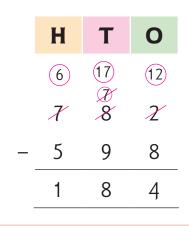
Step 2:



Step 3:



Step 4:



So,
$$782 - 598 = 184$$

Now, let us subtract 267 from 600.

We cannot subtract 7 ones from 0 ones.

We also cannot borrow a ten from 0 tens.

So, first we borrow 1 hundred, leaving 5 hundreds.

1 hundred = 10 tens

We now borrow 1 ten from these 10 tens, leaving

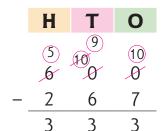
behind 9 tens. 1 ten = 10 ones

Now, 10 ones - 7 ones = 3 ones

9 tens - 6 tens = 3 tens

5 hundreds - 2 hundreds = 3 hundreds

So, 600 - 267 = 333





Subtract:

H T O

6	2	5
-4	3	6

H T O

Word Problems

1. A shopkeeper had 364 kites. He sold 187 kites. How many kites are still left?





2. A carpenter had 735 nails. He has used 348 nails. How many nails are left unused?

3. Sonia has 126 apples. 37 of them are rotten. How many of them are good?





4. Manav had 960 rupees with him. He spent 785 rupees to buy a radio. How many rupees are left with Manav?

5. In a school, there are 650 pupils. Of these, 265 are girls. How many boys are there in the school?





There were 615 hens in a farm. 196 hens died.How many hens are left in the farm?





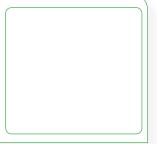


7. There are 365 days in a year. A school has 168 holidays. How many days does the school open during the year?



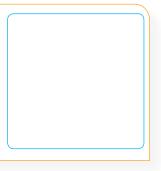
8. Rahul bought a cricket bat for 376 rupees. He gave a 500-rupee note to the shopkeeper. How many rupees did he get back?





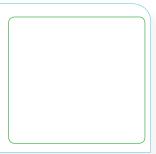


9. Manayata bought 514 sweets on her birthday. She distributed 387 sweets among her friends. How many sweets are left with her?



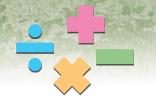
10. How much is 324 greater than 189?







Multiplication



Multiplication as Repeated Addition

Consider 3 groups of 2 mangoes each.







How many mangoes are there in all?

$$2 + 2 + 2 = 6$$

So, 2 taken 3 times is equal to 6 or 3 times 2 equal to 6.

We write it as, $2 \times 3 = 6$.

We say that 2 multiplied by 3 is equal to 6.

In short, we say that 2 into 3 is equal to 6.

We also say that the product of 2 and 3 is 6.

 $2 \times 3 = 6$ is called a multiplication fact.



How many boys are there in all?

$$3 + 3 + 3 + 3 = 12$$

So, 3 taken 4 times is equal to 12 or 4 times 3 equal to 12.

We write it as, $3 \times 4 = 12$.



In short, we say that 3 into 4 is equal to 12.

We also say that the product of 3 and 4 is 12.

 $3 \times 4 = 12$ is called a multiplication fact.

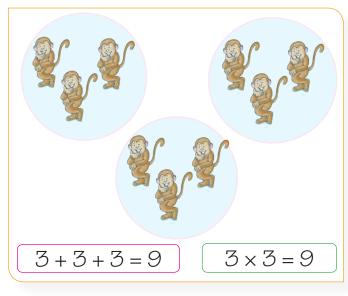


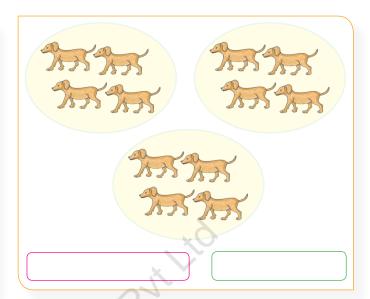


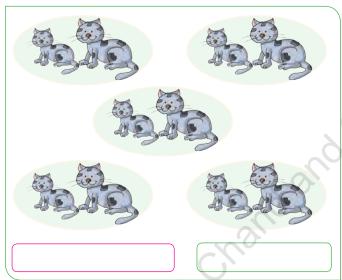


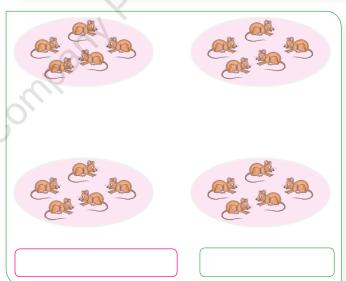


Fill in the placeholders as shown. One has been done for you.

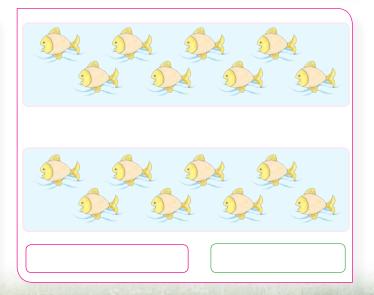




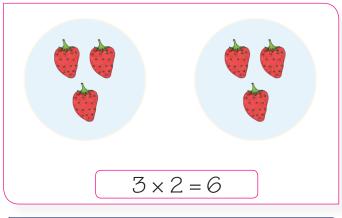


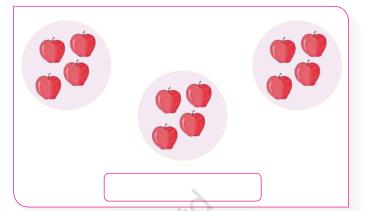


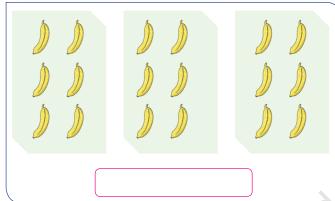


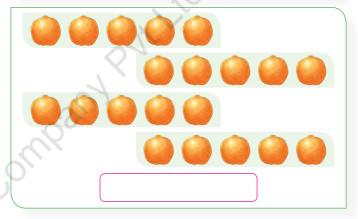


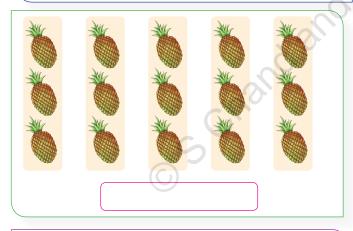
Write the multiplication fact for each of the following. One has been done for you.



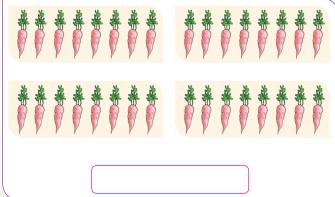


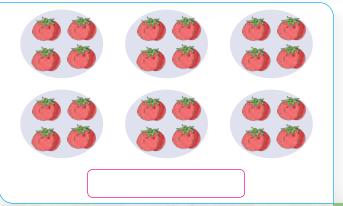












Write the multiplication fact for each of following. One has been done for you.

$$2 + 2 + 2 + 2 + 2 + 2 = 12$$

$$2 \times 6 = 12$$

$$3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$$

$$4 + 4 + 4 + 4 + 4 = 20$$

$$6 + 6 + 6 + 6 = 24$$

$$5 + 5 + 5 + 5 + 5 + 5 = 30$$

$$7 + 7 + 7 + 7 + 7 = 35$$

$$8 + 8 + 8 = 24$$

$$4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 = 32$$

$$9 + 9 + 9 + 9 = 36$$

$$10 + 10 + 10 = 30$$

$$8 + 8 + 8 + 8 + 8 = 40$$

$$6 + 6 + 6 + 6 + 6 + 6 = 36$$

Find the product using multiplication as repeated addition. One has been done for you.

$$4 \times 5 = 4 + 4 + 4 + 4 =$$



$$3 \times 6 =$$

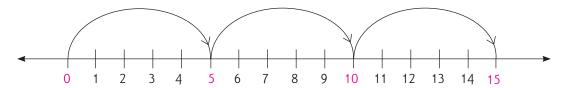
$$7 \times 4 =$$



$$6 \times 7 =$$

Multiplication on the Number Line

Let us find 5×3 using a number line.



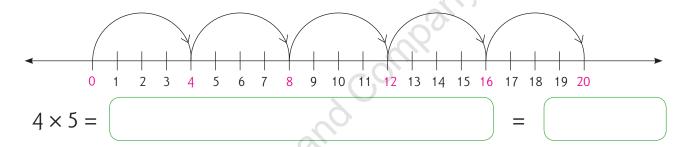
Starting with 0, we mark 3 groups of 5 each.

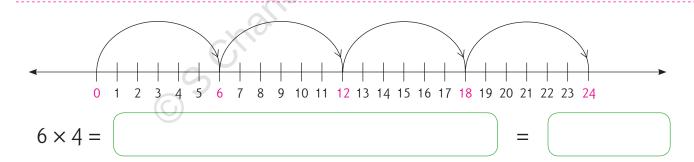
We make 3 moves of 5 each as shown above.

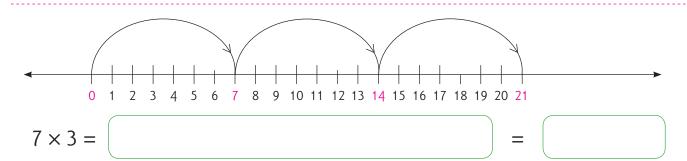
We reach 15.

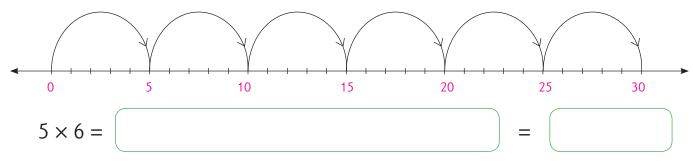
So,
$$5 \times 3 = 5 + 5 + 5 = 15$$
.

Use the number line for multiplication and fill in the placeholders.

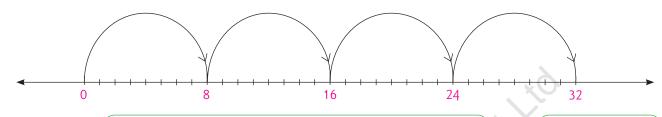




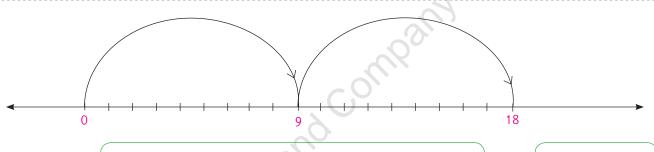




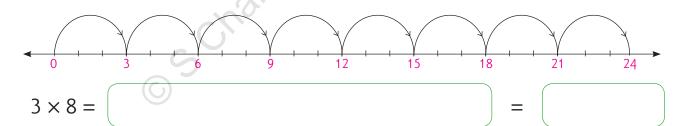
.....

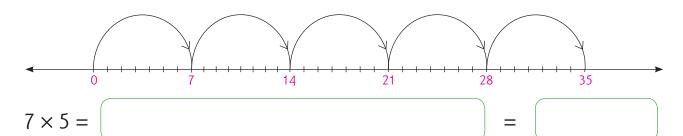


$$8 \times 4 =$$



$$9 \times 2 = \boxed{ }$$





Multiplication Table of 2

- 2
- 2 + 2
- 2 1 2 1 2
- 2 + 2 + 2
- 2 + 2 + 2 + 2

- 2 + 2 + 2 + 2 + 2

- 2 + 2 + 2 + 2 + 2 + 2 + 2
- 2 + 2 + 2 + 2 + 2 + 2 + 2

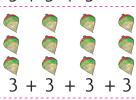
- 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2
- 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2

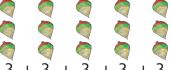
- 2 taken 1 time
- $2 \times 1 = 2$
- 2 taken 2 times
- $2 \times 2 = 4$
- 2 taken 3 times
- $2 \times 3 = 6$
- 2 taken 4 times
- $2 \times 4 = 8$
- 2 taken 5 times
- $2 \times 5 = 10$
- 2 taken 6 times
- $2 \times 6 = 12$
- 2 taken 7 times
- $2 \times 7 = 14$
- 2 taken 8 times
- $2 \times 8 = 16$
- 2 taken 9 times
- $2 \times 9 = 18$
- 2 taken 10 times
- $2 \times 10 = 20$











3+3+3+3+3+3+3+3+3

3 taken 1 time

$$3 \times 1 = 3$$

3 taken 2 times

$$3 \times 2 = 6$$

3 taken 3 times

$$3 \times 3 = 9$$

3 taken 4 times

$$3 \times 4 = 12$$

 $3 \times 5 = 15$

 $3 \times 6 = 18$

 $3 \times 7 = 21$

 $3 \times 8 = 24$

3 taken 5 times

3 taken 6 times

3 taken 9 times

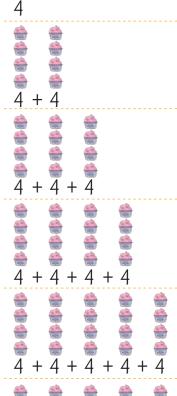
$$3 \times 9 = 27$$

$$3 \times 10 = 30$$















4 taken 1 time

$$4 \times 1 = 4$$

4 taken 2 times

$$4 \times 2 = 8$$

4 taken 3 times

$$4 \times 3 = 12$$

4 taken 4 times

$$4 \times 4 = 16$$

4 taken 5 times

$$4 \times 5 = 20$$

4 taken 6 times

$$4 \times 6 = 24$$

4 taken 7 times

$$4 \times 7 = 28$$

4 taken 8 times

$$4 \times 8 = 32$$

4 taken 9 times

$$4 \times 9 = 36$$

$$4 \times 10 = 40$$



5

5 taken 1 time

$$5 \times 1 = 5$$

5 + 5

5 taken 2 times

$$5 \times 2 = 10$$



5 taken 3 times

$$5 \times 3 = 15$$



5 taken 4 times

$$5 \times 4 = 20$$



5 taken 5 times

$$5 \times 5 = 25$$



5 taken 6 times

$$5 \times 6 = 30$$



5 taken 7 times

$$5 \times 7 = 35$$



5 taken 8 times

$$5 \times 8 = 40$$



5 taken 9 times

$$5 \times 9 = 45$$



$$5 \times 10 = 50$$



6

6 taken 1 time

 $6 \times 1 = 6$

6 + 6

6 taken 2 times

 $6 \times 2 = 12$

6 + 6 + 6

6 taken 3 times

 $6 \times 3 = 18$

6 + 6 + 6 + 6

6 taken 4 times

 $6 \times 4 = 24$

6 + 6 + 6 + 6 + 6

6 taken 5 times

 $6 \times 5 = 30$

6 + 6 + 6 + 6 + 6 + 6

6 taken 6 times

 $6 \times 6 = 36$

6 + 6 + 6 + 6 + 6 + 6 + 6

6 taken 7 times

 $6 \times 7 = 42$

6 + 6 + 6 + 6 + 6 + 6 + 6 + 6

6 taken 8 times

 $6 \times 8 = 48$

6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6

6 taken 9 times

 $6 \times 9 = 54$

6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6

6 taken 10 times

 $6 \times 10 = 60$





$$7 \times 1 = 7$$



7 taken 2 times

$$7 \times 2 = 14$$



7 taken 3 times

$$7 \times 3 = 21$$



7 taken 4 times

$$7 \times 4 = 28$$



7 taken 5 times

$$7 \times 5 = 35$$



7 taken 6 times

$$7 \times 6 = 42$$



7 taken 7 times

$$7 \times 7 = 49$$



7 taken 8 times

$$7 \times 8 = 56$$



7 taken 9 times

$$7 \times 9 = 63$$

$$7 \times 10 = 70$$



8

8 taken 1 time

$$8 \times 1 = 8$$



8 + 8

8 taken 2 times

$$8 \times 2 = 16$$



8 taken 3 times

$$8 \times 3 = 24$$

8 taken 4 times

$$8 \times 4 = 32$$



8 taken 5 times

$$8 \times 5 = 40$$



8 taken 6 times

$$8 \times 6 = 48$$



8 taken 7 times

$$8 \times 7 = 56$$



8 taken 8 times

$$8 \times 8 = 64$$



8 taken 9 times

$$8 \times 9 = 72$$

$$8 \times 10 = 80$$



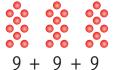
9 taken 1 time

$$9 \times 1 = 9$$



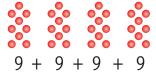
9 taken 2 times

$$9 \times 2 = 18$$



9 taken 3 times

$$9 \times 3 = 27$$



9 taken 4 times

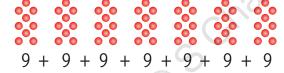
$$9 \times 4 = 36$$

9 taken 5 times

$$9 \times 5 = 45$$

9 taken 6 times

$$9 \times 6 = 54$$



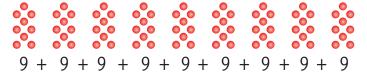
9 taken 7 times

$$9 \times 7 = 63$$



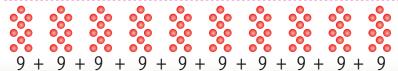
9 taken 8 times

$$9 \times 8 = 72$$



9 taken 9 times

$$9 \times 9 = 81$$



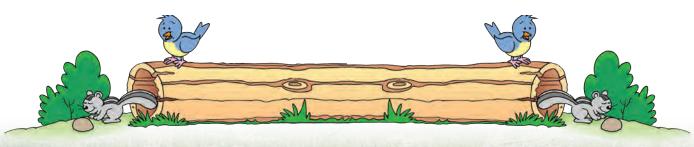
$$9 \times 10 = 90$$

Multiplication lable of 10		
10	10 taken 1 time	10 × 1 = 10
10 + 10	10 taken 2 times	$10 \times 2 = 20$
10 + 10 + 10	10 taken 3 times	$10 \times 3 = 30$

10 + 10 + 10 + 10	10 taken 4 times	$10 \times 4 = 40$
10 + 10 + 10 + 10 + 10	10 taken 5 times	$10 \times 5 = 50$
10 + 10 + 10 + 10 + 10	10 taken 6 times	10 × 6 = 60
10 + 10 + 10 + 10 + 10 + 10	10 taken 7 times	$10 \times 7 = 70$
10 + 10 + 10 + 10 + 10 + 10 + 10	10 taken 8 times	10 × 8 = 80
10 + 10 + 10 + 10 + 10 + 10 + 10 + 10	10 taken 9 times	$10 \times 9 = 90$
10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 +	10 taken 10 times	10 × 10 = 100

Multiplication Table (Combined)

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100



Fill in the placeholders with the help of multiplication tables. One has been done for you.

$$3 \times 5 = (15)$$

$$4 \times 6 =$$

$$5 \times 4 =$$

$$6 \times 7 =$$

$$3 \times 8 =$$

$$9 \times 5 =$$

$$7 \times 6 =$$

$$8 \times 4 =$$

$$7 \times 7 =$$

$$6 \times 9 =$$

$$5 \times 7 =$$

$$8 \times 6 = ($$

$$7 \times 8 =$$

$$8 \times 9 =$$

$$2 \times 7 =$$

$$5 \times 9 =$$

$$6 \times 5 =$$

$$7 \times 9 =$$

$$9 \times 6 = ($$

$$8 \times 7 =$$

$$8 \times 8 =$$

$$9 \times 9 = ($$

$$6 \times 6 =$$

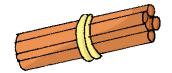
$$3 \times 9 =$$

$$4 \times 7 = ($$

$$10 \times 7 = ($$

Word Problems

A bundle has 5 sticks. 1. How many sticks are there in 6 bundles?



 $5 \times 6 = 30$ sticks



One tricycle has 3 wheels. 2. How many wheels are there in 5 tricycles?

3. One man has 2 hands. How many hands do 4 men have?





A table has 4 legs. How 4. many legs do 5 tables have?

There are packets of 10 crayons **5**. each. How many crayons are there in 4 packets?



3 toffees are given to each child. How many toffees do 8 children get?

One box contains 5 balls. **7**. How many balls do 7 boxes contain?





A monkey jumps 4 stairs 8. at a time. How many stairs does it climb in 6 jumps?

Multiplication of a 2-digit Number by a 1-digit Number (without Carrying)

Let us multiply 32 by 3. We proceed as follows:

Step 1: Arrange the numbers in column

form as shown.

T O 3 2

× 3

Step 2: Multiply the ones.

2 ones \times 3 = 6 ones.

Write 6 under the ones column.

Step 3: Multiply the tens.

 $3 \text{ tens} \times 3 = 9 \text{ tens}.$

Write 9 under the tens column.

So, $32 \times 3 = 96$.

T O 2 x 3 9 6

Let us now multiply 43 by 2.

Step 1:

T O 4 3 × 2

Step 2:

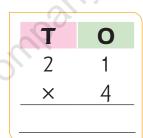
Step 3:

Multiply:

T	0
1	2
×	2

T	0
1	3
×	3

T	0
2	4
X	2



Т	0
3	1
×	3

T	0
1	3
×	2

Multiplication of a 2-digit Number by a 1-digit Number (with Carrying)

Let us multiply 27 by 2. We proceed as follows.

Step 1: Write the numbers in column form as shown.

T	0
2	7
×	2

Step 2: Multiply the ones. $7 \text{ ones} \times 2 = 14 \text{ ones}$

T	0
2	7
×	2
	1 4

Step 3: Regroup the product in ones column. 14 ones = 1 ten + 4 ones Write 4 under the ones column and carry over 1 to the tens column.

T	0
2	7
×	2
	1) 4

Step 4: Multiply the tens.

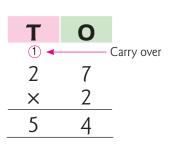
2 tens
$$\times$$
 2 = 4 tens

Add the carried over tens.

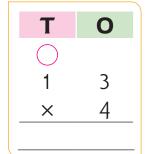
4 tens + 1 ten (carried over) = 5 tens

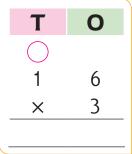
Write 5 under the tens column.

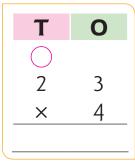
So, $27 \times 2 = 54$.

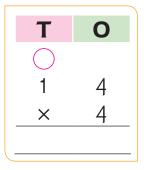


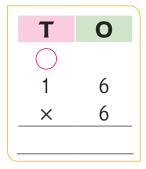
Multiply:

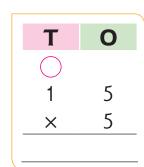


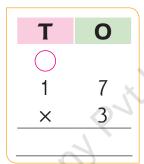


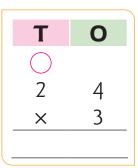


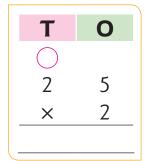


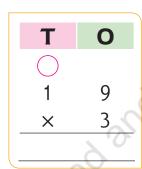


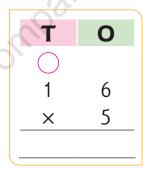


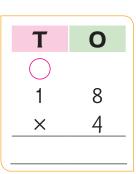


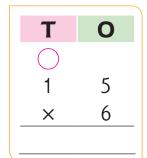


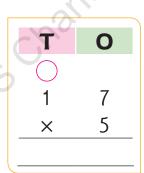


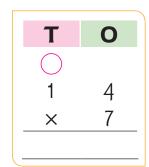


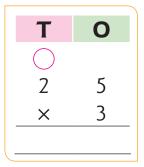


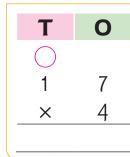


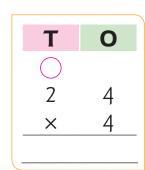












Т	0
1	6
×	4

Т	0
1	9
×	5

More Multiplication with Carrying

Let us multiply 57 by 3.

We proceed as follows.

Step 1: Write the numbers in column form as shown.

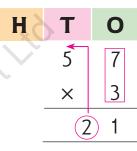
Н	T	0
	5	7
	×	3

Step 2: Multiply the ones.

7 ones \times 3 = 21 ones

= 2 tens + 1 one

Write 1 under the ones column and carry over 2 to tens column.



Step 3: Multiply the tens.

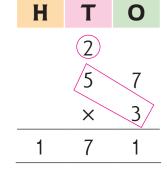
 $5 \text{ tens} \times 3 = 15 \text{ tens}$

15 tens + 2 tens (carried over)

= 17 tens

= 1 hundred + 7 tens.

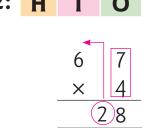
Write 7 under the tens column and 1 under the hundreds column. So, $57 \times 3 = 171$



Let us now multiply 67 by 4.

Step 1: H T O

6 7 × 4 Step 2:

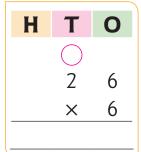


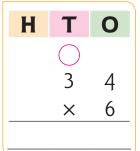
Step 3:

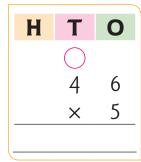
H T O

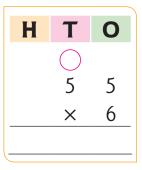
2
6
7
× 4
2
6
8

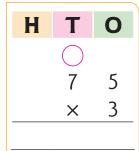
Multiply:

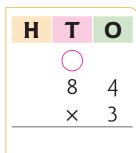




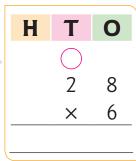


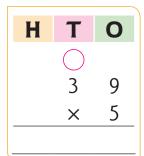




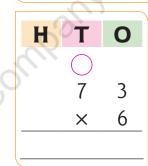


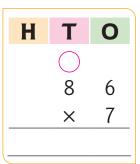


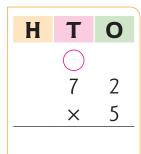


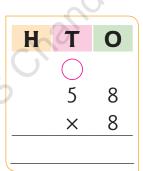


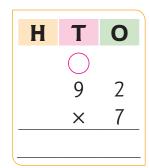


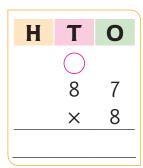


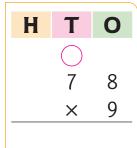


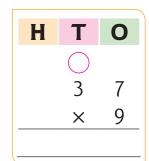












Word Problems

1. There are 21 students in a class. How many students are there in 3 classes?







2. An almirah has 7 shelves. 23 books are kept on each shelf. How many books are there in the almirah?

3. There are 12 players in a team. 8 teams took part in a contest. How many players participated in the contest?

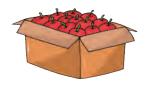




4. There are 16 balls in a bag. How many balls are there in 9 bags?

5. There are 7 days in a week. How many days are there in 24 weeks?

NOVEMBER						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			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		



6. There are 84 apples in a carton. How many apples are there in 5 such cartons?

7. In a stadium, there are 38 chairs in each row. How many chairs are there in 8 rows?





Order Property of Multiplication

Look at the figures given below.



$$2 + 2 + 2 = 6$$

Thus, 2 taken 3 times = 6 So, $2 \times 3 = 6$

+

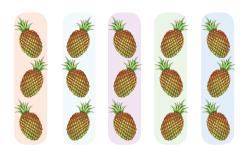
$$3 = 6$$

Thus, 3 taken 2 times = 6

So,
$$3 \times 2 = 6$$

Hence, $2 \times 3 = 3 \times 2 = 6$

Now, look at the figures given below.



$$3 + 3 + 3 + 3 + 3 = 15$$

Thus, 3 taken 5 times = 15 So, $3 \times 5 = 15$



So,
$$5 \times 3 = 15$$

Hence,
$$3 \times 5 = 5 \times 3 = 15$$

When two numbers are multiplied they may be taken in any order. The result remains the same. This is called the order property of multiplication.

Fill in the placeholders.

$$2 \times 3 = 3 \times$$

$$5 \times 2 = 2 \times$$

$$2 \times 7 = \times 2$$

$$3 \times 4 = 4 \times$$

$$3 \times 5 = 5 \times \bigcirc$$

$$2 \times 6 = \times 2$$

$$\times$$
 8 = 8 \times 2

$$5 \times 1 = 1 \times$$

5

= 15

$$4 \times 5 = 5 \times \bigcirc$$

$$3 \times () = 7 \times 3$$

Multiplicative Property of 1

Look at the figures given below.









$$1 + 1 + 1 = 3$$

Thus, 1 taken 3 times = 3

So,
$$1 \times 3 = 3$$







Clearly, 3 taken 1 time = 3

So,
$$3 \times 1 = 3$$

Hence,
$$1 \times 3 = 3 \times 1 = 3$$

By multiplying any number with 1, we get the same number.

Thus,
$$1 \times 2 = 2 \times 1 = 2$$
;

$$1 \times 4 = 4 \times 1 = 4$$
:

$$1 \times 6 = 6 \times 1 = 6$$
;

$$1 \times 3 = 3 \times 1 = 3$$
;

$$1 \times 5 = 5 \times 1 = 5$$
;

$$1 \times 7 = 7 \times 1 = 7$$
 and so on.

Fill in the placeholders. One has been done for you.

$$1 \times 3 = \left(3\right)$$

$$1 \times 4 =$$

$$6 \times 1 = \bigcirc$$

$$7 \times 1 = \bigcirc$$

$$1 \times 8 =$$

$$1 \times 6 =$$

$$2 \times 1 =$$

$$1 \times 5 =$$

Multiplicative Property of Zero

We know that: 0 + 0 = 0

Thus, 0 taken 2 times = 0

So, $0 \times 2 = 0$

By order property: $0 \times 2 = 2 \times 0$

Hence, $0 \times 2 = 2 \times 0 = 0$

Similarly, 0 + 0 + 0 + 0 + 0 = 0

Thus, 0 taken 5 times = 0

So, $0 \times 5 = 0$

But, $0 \times 5 = 5 \times 0$

Hence, $0 \times 5 = 5 \times 0 = 0$

Any number multiplied by 0 is 0.

Fill in the placeholders. One has been done for you.

$$1 \times 0 = O$$

$$0 \times 2 =$$

$$4 \times 0 =$$

$$0 \times 6 =$$

$$0 \times 7 =$$

$$5 \times 0 =$$

$$6 \times 0 = \bigcirc$$

$$0 \times 10 =$$

$$8 \times 0 =$$

$$10 \times 0 = \left(\begin{array}{c} \\ \end{array} \right)$$



Division



'Division' means 'equal sharing'.

Activity 1

Rohan's mother bought a packet of 12 chocolates for her 4 children.





She gives 1 chocolate to each of the 4 children.

She then gives 1 chocolate more to each of the 4 children.





She again gives 1 chocolate more to each of the 4 children.

Now, the mother is left with no chocolates. This means that all the 12 chocolates have been divided equally among 4 children and each child gets 3 chocolates.

We say that: 12 divided by 4 is equal to 3.

We write it as: $12 \div 4 = 3$.

The symbol '÷' stands for division.

 $12 \div 4 = 3$ is a division fact.



Activity 2

1. Suppose we have 9 cups.



Divide them equally into 3 groups.



Each group contains 3 cups.

We write: $9 \div 3 = 3$.

We say that, 9 divided by 3 is equal to 3.

 $9 \div 3 = 3$ is called a division fact.



2. Suppose we have a collection of 8 toys.



Distribute them equally among 2 children.





Each child gets 4 toys.

So, $8 \div 2 = 4$.

Thus, 8 divided by 2 is equal to 4.

 $8 \div 2 = 4$ is a division fact.



Fill in the placeholders.







15 balloons have been divided equally into groups.

Each group contains

balloons.

Division fact is $15 \div 3 =$





18 pencils have been divided equally into groups.

Each group contains pencils.

Division fact is $18 \div 6 =$

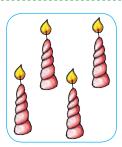








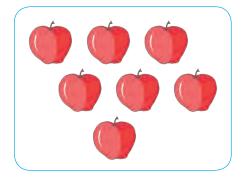


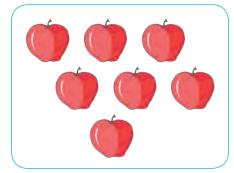


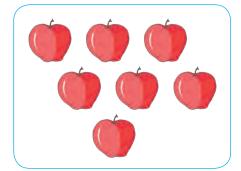
20 candles have been divided equally into groups.

Each group contains candles.

Division fact is $20 \div 5 =$







21 apples have been divided equally into groups.

Each group contains apples.

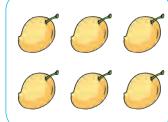
Division fact is \div = .











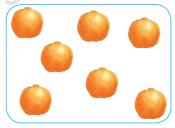
24 mangoes have been divided equally into groups.

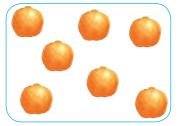
Each group contains mangoes.

Division fact is \div = .











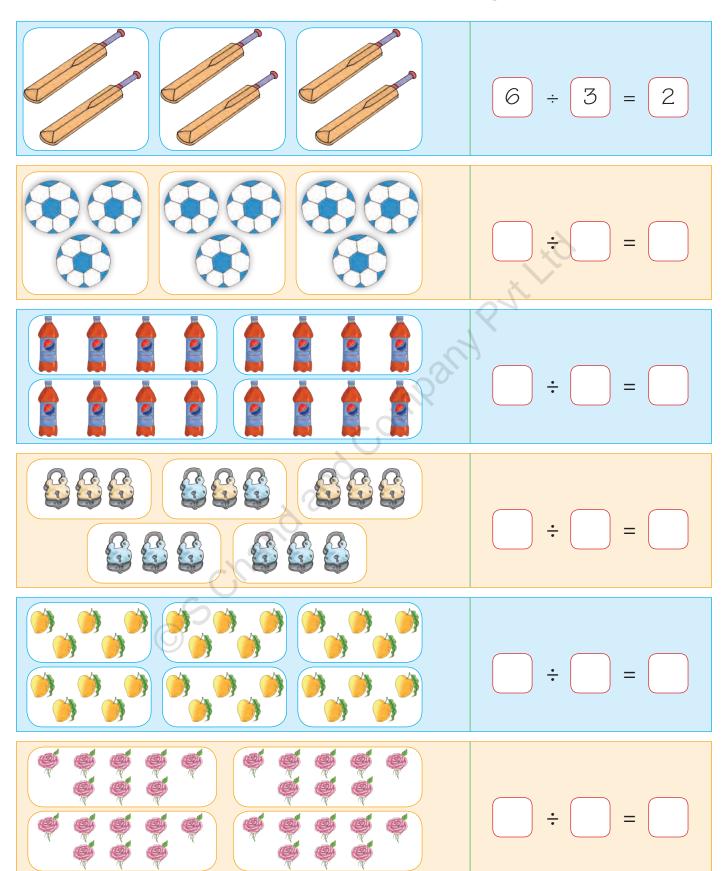
28 oranges have been divided equally into groups.

Each group contains oranges.

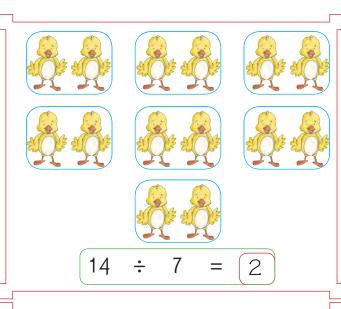
Division fact is \div = .

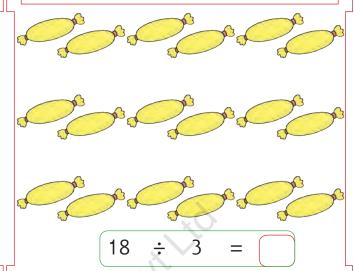


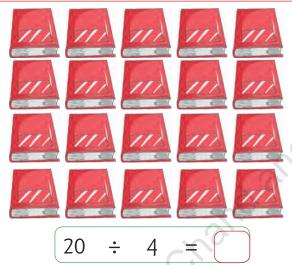
Write the division fact for each of the following.

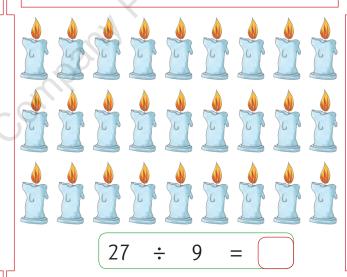


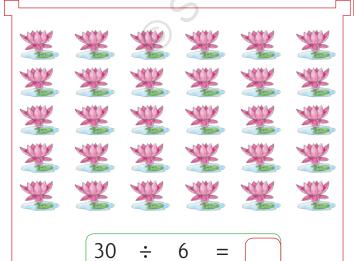
Make groups as shown and fill in the correct number.

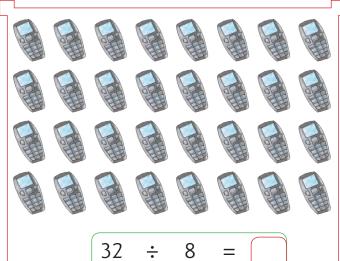












Division as Inverse of Multiplication

Suppose we have 2 groups of 4 boys each.



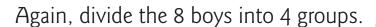


Total number of boys =
$$2 \times 4$$

= 8 .

This means 8 boys have been divided into 2 groups and there are 4 boys in each group.

So,
$$8 \div 2 = 4$$
.













How many boys are there in each group?

Clearly, 2.

So,
$$8 \div 4 = 2$$
.

The multiplication fact $2 \times 4 = 8$ gives rise to two division facts:

$$8 \div 2 = 4$$
 and $8 \div 4 = 2$.

So, division is the inverse of multiplication.



Write two division facts for each of the following multiplication facts. One has been done for you.

Multiplication Fact	Divisio	n Facts
2 × 5 = 10	10 ÷ 2 = 5	(10) ÷ (5) = (2)
3 × 4 = 12	÷	÷ () = ()
$3 \times 9 = 27$	÷	÷
$4 \times 6 = 24$	÷	÷
$5 \times 7 = 35$	÷ =	÷ () = ()
6 × 3 = 18	÷ = =	÷
$8 \times 5 = 40$	÷ () = ()	• = =
7 × 8 = 56	÷	÷
$9 \times 7 = 63$	· = =	÷ () = ()
4 × 10 = 40	÷ =	÷ () = ()
$8 \times 9 = 72$	÷	÷
$6 \times 7 = 42$	÷	÷

Division using Multiplication Tables

Suppose we have to divide 20 by 4.

Recite the multiplication table of 4 till you come to 20.

Clearly, 4 goes into 20 five times as $4 \times 5 = 20$. So, $20 \div 4 = 5$.

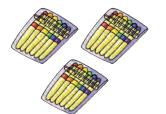


Divide using multiplication tables.

16 ÷ 2 =	15 ÷ 3 =	24 ÷ 4 =
27 ÷ 9 =	32 ÷ 8 =	56 ÷ 7 =
48 ÷ 6 =	63 ÷ 9 =	35 ÷ 5 =
36 ÷ 4 =	18 ÷ 2 =	21 ÷ 3 =
54 ÷ 9 =	49 ÷ 7 =	45 ÷ 5 =
72 ÷ 8 =	36 ÷ 6 =	81 ÷ 9 =
63 ÷ 7 =	80 ÷ 10 =	56 ÷ 8 =
50 ÷ 5 =	24 ÷ 3 =	16 ÷ 4 =
64 ÷ 8 =	12 ÷ 3 =	70 ÷ 7 =

Word Problems

1. 18 pens are equally packed into 3 packets. How many pens are there in each packet?



 $18 \div 3 = 6$



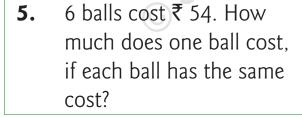
2. 45 toffees are equally divided among 9 girls. How many toffees does each girl get?

7 days make a week. How many weeks are there in 42 days?

SUN	MON	TUE	WED	THU	FRI	SAT
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				



4. 4 persons can sit in a car. How many cars will be needed for 32 persons?









6. There are 40 bananas in 5 bunches. Each bunch contains the same number of bananas. How many bananas are there in each bunch?

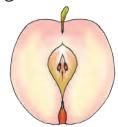


Fraction means part of a whole.

Tina's mummy had an apple. She cut it into two equal parts to give one to Tina and the other to her younger brother, Mac.



 \Rightarrow

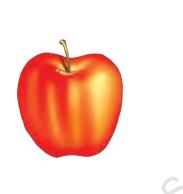




But just then Mac's friend, Sam and Tina's friend, Ria came there.

So, mummy cut each part into two equal parts again to give one part to each

of the four children.



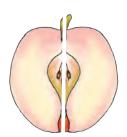
 \Longrightarrow



 \Rightarrow



 \Rightarrow



One part out of two equal parts is called one-half, written as $\frac{1}{2}$. So, two halves make a whole.

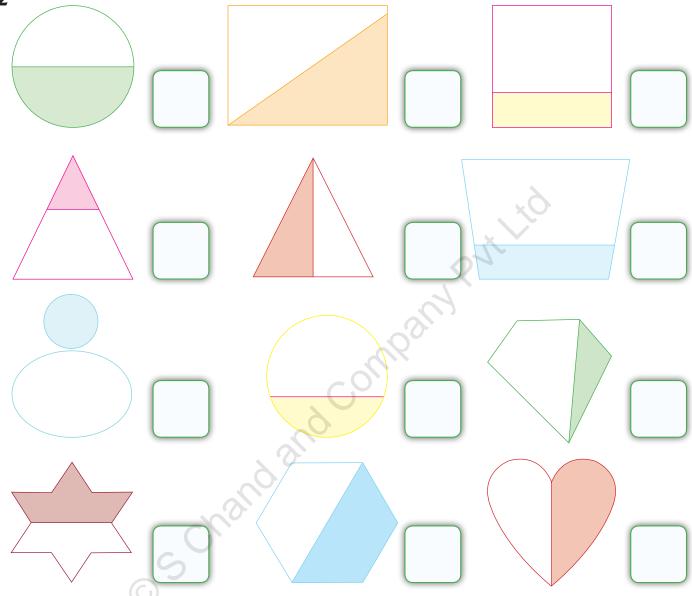
Thus, each of Mac and Tina was to get one-half of the apple before their friends came.

One part out of four equal parts is called one-quarter, written as $\frac{1}{4}$. So, four quarters make a whole.

Thus, finally each of the four children got one-quarter of the apple.

Tick (\checkmark) the shapes which are divided in halves and write the fraction

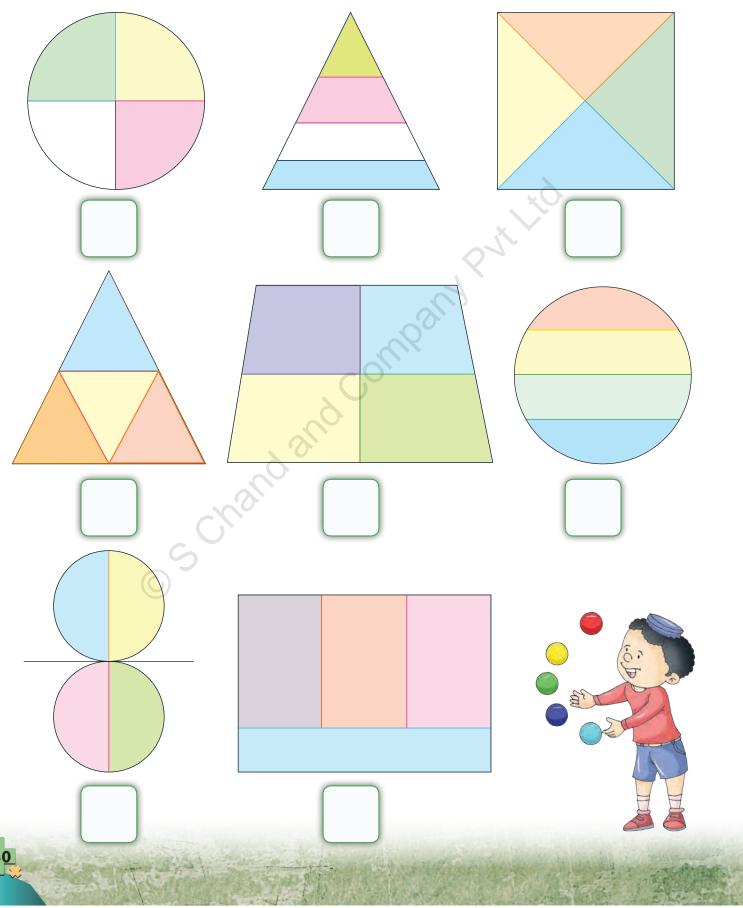
 $\frac{1}{2}$ in each part.



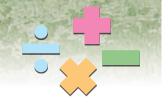
Circle the jars which are less than half full of water.



Tick (\checkmark) the shapes which are divided in quarters and write the fraction $\frac{1}{4}$ in each part.







For our daily needs, we buy things from the market. To buy things, we have to pay money to the shopkeepers.

Indian Currency

Indian currency is in the form of Rupees and Paise. Rupees and paise are in the form of coins and notes.

Coins











5 paise

10 paise

20 paise

25 paise

50 paise



1 rupee



2 rupees



5 rupees



10 rupees

Notes



1 rupee



2 rupees



5 rupees



10 rupees



20 rupees



50 rupees



100 rupees





500 rupees







2000 rupees



Note: Coins of 5 p, 10 p, 20 p, 25 p, 50 p and notes of denominations 1 rupee and 2 rupee are not in use.

1 rupee = 100 paise

In short, we denote:

Rupees by ₹ and Paise by p.

Thus, we can write:

1 rupee as ₹ 1, 57 rupees as ₹ 57 and 63 paise as 63 p.

The following statements are clearly true.

Two 🏽



(50-paise coins)



1 rupee

Four (



(25-paise coins)



1 rupee

Five



(20-paise coins)



1 rupee



Ten (10-paise coins)



1 rupee



Twenty (5-paise coins) =



1 rupee

Similarly, we have:





































Fill in the placeholders.

- 1. How many 25-paise coins make a rupee?
- 2. How many 20-paise coins make a rupee?
- **3.** How many 5-paise coins make a rupee?
- **4.** How many 10-paise coins make a rupee?
- **5.** How many 50-rupee notes make 100 rupees?
- **6.** How many 5-rupee notes make 100 rupees?

Fill in the blanks.

- **1.** 1 rupee = _____ paise.
- **2.** 50-paise coins make a rupee.
- **3.** 10-paise coins make a rupee.
- **4.** Two 50-rupee notes make rupees.
- **5.** 20-rupee notes make 100 rupees.
- **6.** 5-rupee notes make 100 rupees.
- **7.** 2-rupee notes make 100 rupees.
- **8.** For a 20-rupee note, we can exchange ______5-rupee notes.
- **9.** For a 50-rupee note, we can exchange ______ 10-rupee notes.
- **10.** For a 100-rupee note, we can exchange ______10-rupee notes.
- **11.** For a 100-rupee note, we can exchange ______ 20-rupee notes.



Addition and Subtraction of Money

Addition

For adding two or more amounts of money, we simply add their numbers.

Observe the following additions.



Subtraction

To subtract an amount of money from the other, we simply subtract their numbers.

Observe the following subtractions.



Add:

Subtract:

- 5 3 rupees
- 3 8 rupees

- 6 1 rupees
- 2 9 rupees
- 7 2 rupees
- 5 4 rupees

- 1 0 0 rupees
- 6 4 rupees
- 2 1 5 rupees
- 1 7 6 rupees
- 4 5 3 rupees
- 9 7 rupees

- 5 3 0 rupees
- 2 6 5 rupees
- 2 3 0 rupees
 - 9 3 rupees
- 1 3 2 rupees
 - 9 rupees

- 6 4 paise
- 3 6 paise

- 8 3 paise
- 6 9 paise

- 7 0 paise
- 5 1 paise

- ₹ 8 0
- ₹ 1 1 0 - ₹ 7 6

₹ 5 0 0 ₹ 2 3 5

8 2 p
- 3 7 p

- 7 3 p
- 4 8 p

- 9 0 p
- 6 7 p

Word Problems

1. Tanya had 64 rupees.

Her mother gave her 56

rupees more. How many
rupees did she have in all?

2.





Shilpa paid 305 paise for an eraser and 245 paise for a toffee. How much money did she pay altogether?

186 rupees, a book for 49 rupees and a pencil-box for 27 rupees. How much money did he spend in all?



On Diwali, Sachin spent ₹ 238 on sweets, ₹ 85 on crackers and ₹ 26 on candles. How much money did he spend on Diwali?



Joseph has ₹ 68. His sister

Mary has ₹ 16 more than

Joseph. How much money

does Mary have? How much

money do they have altogether?



6. Komal bought a pencil for 75 paise. She gave a 1-rupee note to the shopkeeper. How many paise did she get back?

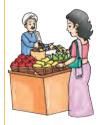


	(0)	(9)	(10)	
	7	Ø	0	p
_		7	5	p
		2	5	p



- 7. Sonia had 50 rupees. She bought an inkpot for 17 rupees. How much money is left with her?
- 8. Sunita has ₹ 82. Her brother Gaurav has ₹ 25 less than Sunita. How much money does Gaurav have?





- 9. Mona's mother had ₹ 350 in her purse. She purchased fruits for ₹ 268. How many rupees were left with her?
- 10. Geeta has ₹ 546 and her brother Ravi has ₹ 357.How much money has Geeta more than Ravi?





Skip Counting

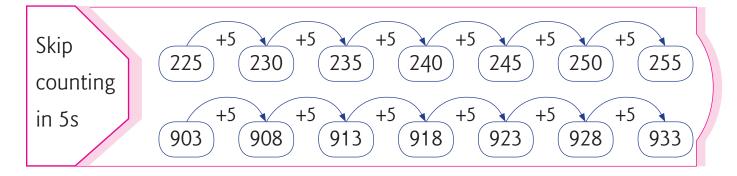


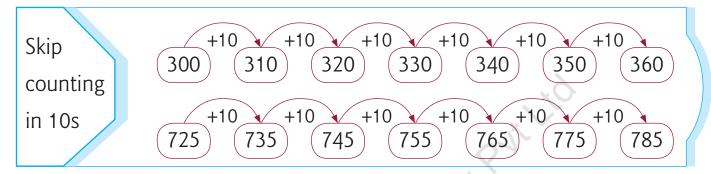
As you have read before, 'Skip Counting' means 'skipping numbers while counting'.

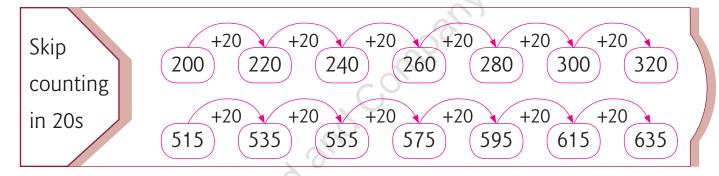
In a skip counting pattern, we go on adding the same number to get the next term. Thus, while skip counting in 2s, we go on adding 2; while skip counting in 5s, we go on adding 5; and so on.

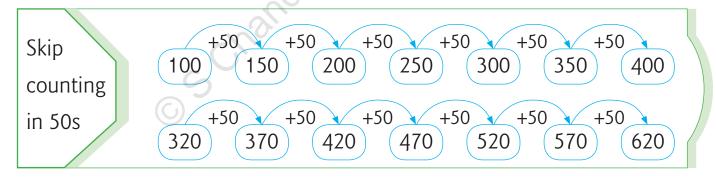
Let us study some examples.

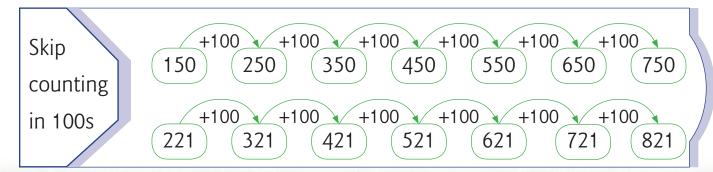












Continu	ue the p	attern by	/ count	ing in 2	s.		
132	134	136					
396	398						
Continu	ue the p	attern by	/ count	ing in 3	s.		
543	546	549					
602	605	608					
Continu	ue the p	attern by	/ count	ing in 5	s.	OUIL	
411	416	421					
Continu	ue the p	attern by	/ count	ing in 1	0s.		
220	230	240		700			
651	661	671	20				
Continu	ue the p	attern by	count	ing in 2	0s.		
810	830	850					
Continu	ue the p	attern by	/ count	ing in 5	0s.		
130	180	230					
525	575	625					
Continu	ue the p	attern by	/ count	ing in 1	00s.		
105	205						

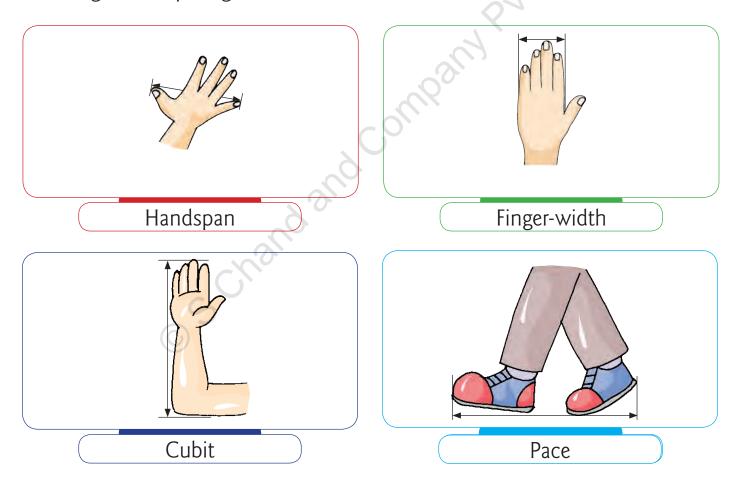


In our everyday life, we measure the lengths of various objects such as cloth, rope, electric wire, etc.

Units of Length

Length tells us how long an object is.

In olden days, lengths were measured using handspan, finger-width, arm-length or step-length as below:



But none of these is a standard unit, as the handspan, finger-width, arm-length etc. differ from person to person.



So, for convenient and accurate measurement of length, we use the standard units and devices.

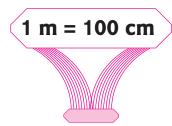
We measure the length of an object by a metre scale or a ruler.

The standard unit of length is metre.

For measuring small lengths, we use centimetre as a unit.

We denote:

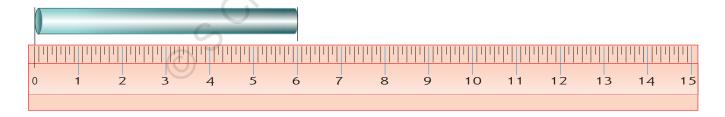
- (a) metres by m
- (b) centimetres by cm





How to Measure the Length of an Object Using a Ruler

We place the object alongside the ruler, with one end of the object at the zero mark on the ruler, as shown below.



Then, we take the reading at the other end of the object.

This gives us the length of the object.

A ruler or a small scale, as shown above, gives us the length in centimetres.

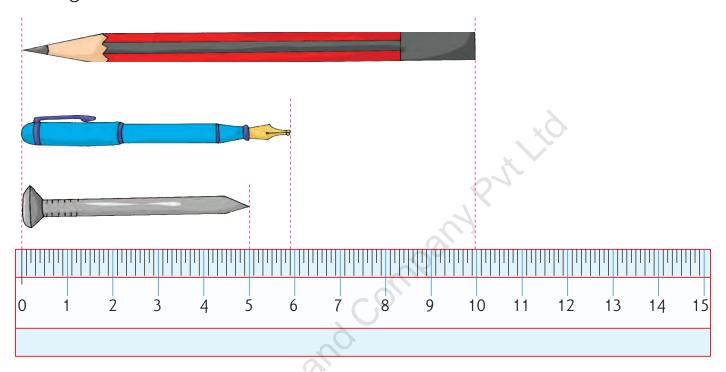
So, the length of the above rod is 6 cm.



Look at the ruler shown below.

Its length is 15 cm.

Given below are some objects. One end of each one of them is at the 0-mark of the scale. Look at the other end of each object at the scale and note down its length.



Now, fill in the blanks given below.

The length of the nail is cm.

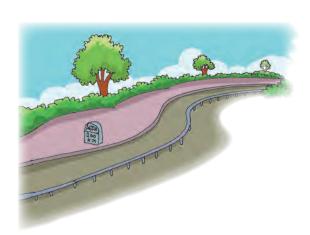
The length of the pencil iscm.

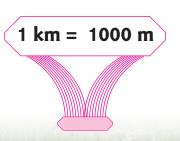
The length of the pen is cm.

A bigger unit of length is kilometre.

We denote kilometres by km.

It is used to measure long distances.

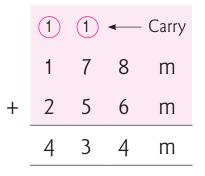


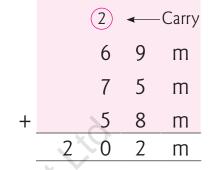


Addition and Subtraction of Lengths

Addition of Lengths

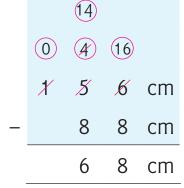
To add two or more lengths in metres or centimetres, we simply add the numbers and put down the unit.





Subtraction of Lengths

To subtract given lengths, we simply subtract the numbers and units put down the unit.



If the given lengths are in combined units, we arrange them in two columns of m and cm and then add or subtract them separately.

Add: 24 m 65 cm and 9 m 17 cm.

	m	cm	
	1	1 -	– Carry
	2 4	6 5	
+	9	1 7	
	3 3	8 2	-

So, the sum is 33 m 82 cm.

Subtract: 48 m 65 cm from 72 m 90 cm.

	m	cm	
	6 12	8 10	— Carry
	72	90	
_	4 8	6 5	
	2 4	2 5	
the differen	nco ic 2/	m 25 c	

So, the difference is 24 m 25 cm.

Add:

	m	cm
	4 8	5 6
+	1 6	2 5
		(

	m			CI	m
	1	3	7	4	4
+		6	8	4	8

	m	cm
	6 6	4 4
	3 7	3 6
+	1 8	1 9

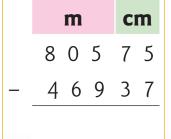
	m	cm
	5 6 3	5 6
	7 8	2 9
+	6	6

Subtract:

	m	CI	n
	8 2	3	5
_	3 7	1	9

	m			CI	m
	2	1	4	5	0
_	1	2	9	3	6

	m			CI	m
	2	0	0	6	2
_	1	0	8	3	4



Word Problems

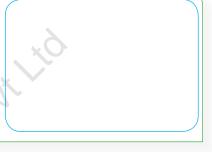
1. Swati bought three pieces of ribbon. One of them was 38 cm long, the second 29 cm long and the third 26 cm long. What length of the ribbon did she buy altogether?







2. A rope 84 metres long is cut into two pieces. The length of one piece is 48 metres. What is the length of the other piece?



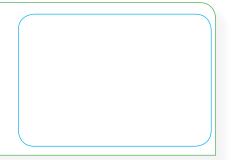
3. Kamla bought a reel of thread measuring 500 metres. She used 372 metres for stitching clothes. How much thread was left with her?







4. Reena is 1 m 46 cm tall. Her brother Nitin is 38 cm taller than her. What is the height of Nitin?



5. Payal is 1 m 54 cm tall. Her brother Gaurav is shorter by 25 cm. How tall is Gaurav?







Sajal's father bought 2 m 35 cm of cloth for his shirt and 2 m 55 cm for his trousers. How much cloth did he buy altogether?



7. A piece of rope is cut into two pieces. One piece is 8 m 56 cm long. The other piece is 13 m 28 cm long. What was the length of the original piece?





8. A cloth seller had 42 m 50 cm of cloth. He sold 28 m 35 cm from it. How much cloth was left?



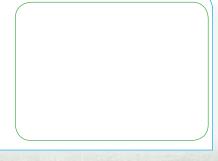
Yanya has 27 m 56 cm long rope and Tanya has 32 m 75 cm long rope. Who has the longer rope and by how much?







A piece of cloth measures 32 m 25 cm. A piece measuring 27 m 16 cm is cut from it.What length of the cloth is left?





Measurement of Weight

In Class 1, you have studied how to separate heavy and light objects.

Activity 1

Take a piece of chalk in one hand and a stone in the other hand. Which of the two is easier to lift? Clearly, the chalk-piece. So, the chalk-piece is light, while the stone is heavy.



Heavy items are said to have more weight. Light items have less weight.



Light

The property of an object which tells us how heavy it is, is called its weight.

Activity 2

Take two elastic strings.

Tie one end of one string to a stone.

Tie one end of the other string to a pencil.

Hold the two strings in your hands.

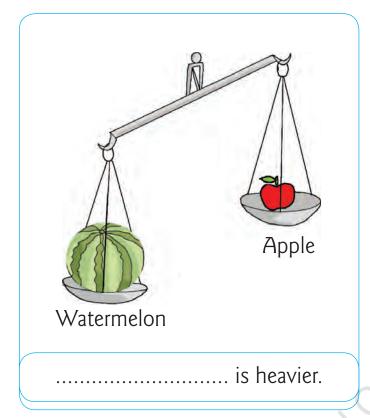
Which string stretches more?

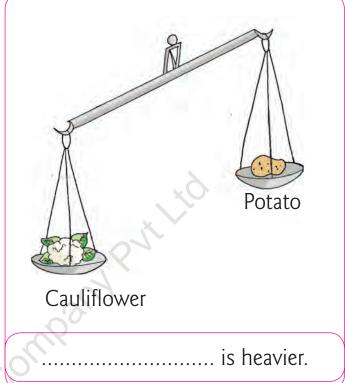
The string with the stone.

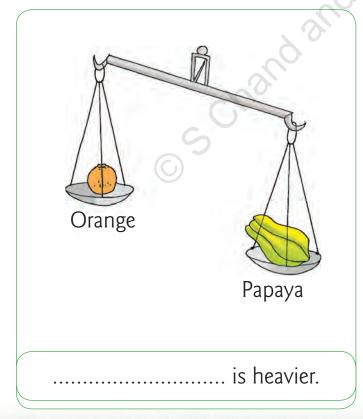
So, heavy objects push downwards more than light objects.

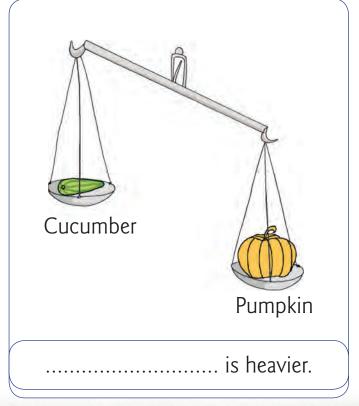


Look at the following figures. Observe the position of the pans and write which of the two objects is heavier.









Measuring Weights

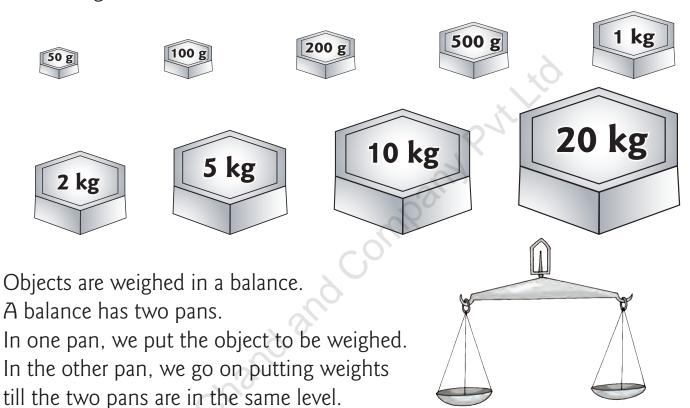
We purchase fruits, vegetables, sugar, rice etc. by weights.

We weigh them in kilograms and grams.

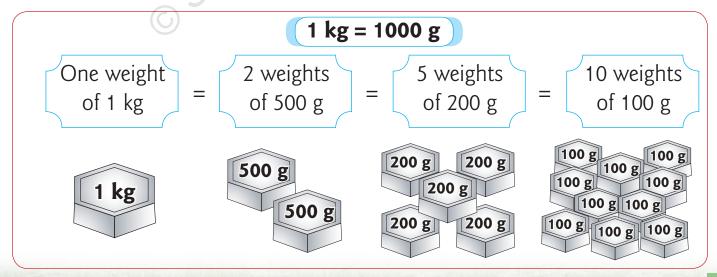
In short, we denote:

kilograms by kg and grams by g.

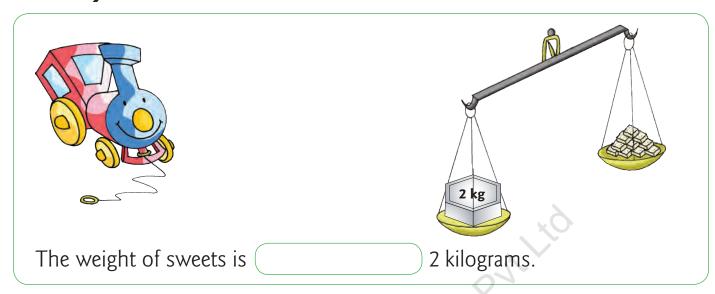
These weights are shown below.

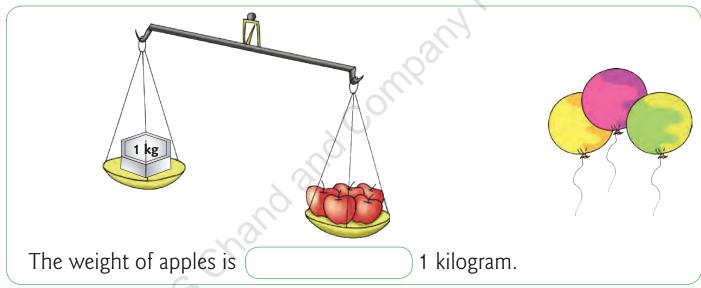


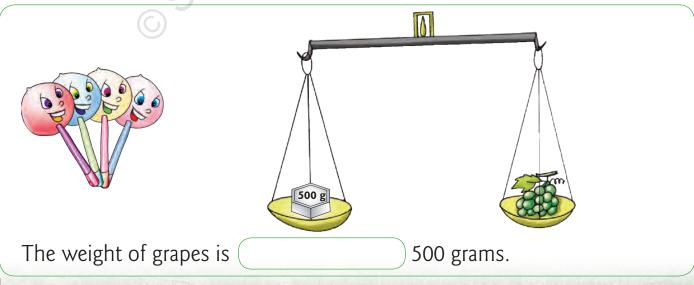
These total weights, show the actual weight of the object.



Fill in the placeholders with less than or more than or equal to as the case may be.







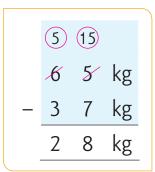
Addition and Subtraction of Weights

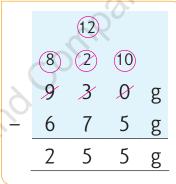
Addition of Weights

To add two or more weights in grams or kilograms, we simply add the numbers and put down the unit.

Subtraction of Weights

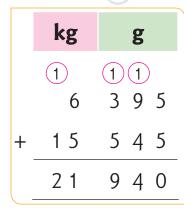
To subtract given weights, we simply subtract the numbers and put down the unit.





If the given weights are in combined units, we arrange them in two columns of kg and g and then add or subtract them separately.

Add: 6 kg 395 g and 15 kg 545 g.



So, the sum is 21 kg 940 g.

Subtract: 242 kg 375 g from 418 kg 500 g.)

		kg	•		g	
					9	
	\sim)(11)				10
	4	1	8	8	0	9
_	2	4	2	3	7	5
	1	7	6	1	2	5

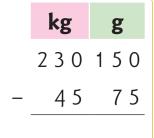
So, the difference is 176 kg 125 g.

Add:

Subtract:

	kg	g
	1 2 5	450
_	6 8	2 7 5

	kg	g
	6 5 0	200
_	175	150



Word Problems

1. A shopkeeper had 600 kg of wheat. Out of it, he sold 385 kg. How much of wheat was left with the shopkeeper?

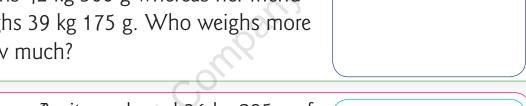




A coolie carries two boxes. 2. One box weighs 28 kg and the other weighs 69 kg. How much weight does the coolie carry?



Anita weighs 42 kg 300 g whereas her friend 3. Geeta weighs 39 kg 175 g. Who weighs more and by how much?

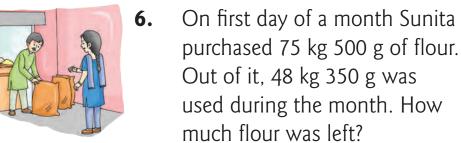




Amit purchased 36 kg 285 g of 4. sugar from one shop and 48 kg 460 g from another shop. What is the total quantity of sugar purchased by him?



Rahul weighed 75 kg 320 g. He reduced his **5**. weight and lost 8 kg 275 g. How much does he weigh now?







Measurement of Capacity

Substances like water, milk, oil, petrol etc. are called liquids.

Activity 1

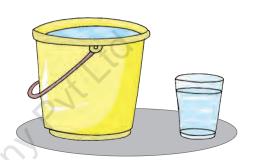
Take a bucket and a glass.

Fill the bucket with water.

Now, pour the water from the bucket into the glass, till the glass is full.

But water is still left in the bucket.

Clearly, the bucket can hold more water than the glass. We say that the capacity of the bucket is more than the capacity of the glass.



Activity 2

Take a milk feeding bottle and a cup.

Fill each of them with milk.

Which one can hold more milk?

Clearly, the milk feeding bottle can hold more milk than the cup. We say that the capacity of milk feeding bottle is more than the capacity of the cup.

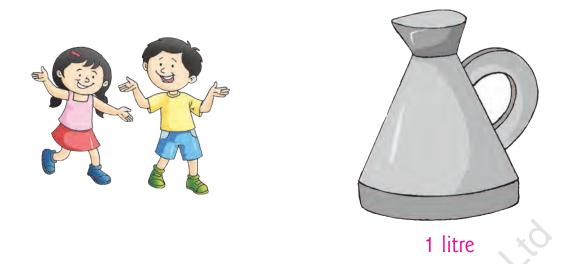


The capacity of a container is the quantity of liquid it can hold.

We measure the quantity of a liquid in litres and millilitres.

We denote litres by L and millilitres by mL.

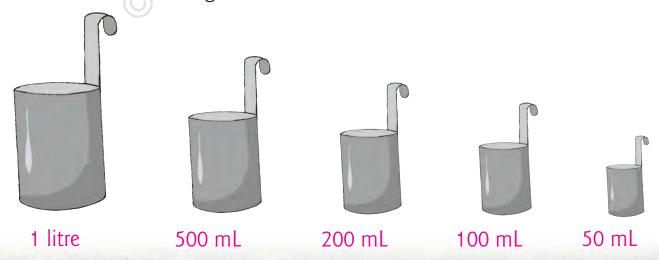
The vessel shown below measures 1 litre of petrol or kerosene.



This vessel when filled completely measures one litre of the liquid. The other measures for measuring petrol, kerosene etc. are given below.



The vessels for measuring milk are shown below.



Measuring Capacity in Litres and Millilitres

We measure small quantities of liquids in millilitres (mL).

Some examples are shown below.

1. Dose of medicine to be given as injection to a patient like 1 mL, 2 mL, 5 mL, 10 mL.



2. Milk to be given to an infant in a feeding bottle like 100 mL, 200 mL, 250 mL.



3. Cough syrup or any tonic that we buy from a chemist shop like 40 mL, 50 mL, 100 mL, 200 mL.



4. Fruit-juice, inkpot or ketch-up that we buy such as 400 mL, 500 mL.



Large quantities of liquids are measured in litres (L).

Some examples are shown below.

1. Water in a bucket such as 5 L, 10 L, 20 L.



2. Milk that we buy daily such as 1 L, 2 L, 3 L, 5 L.



3. Oil or ghee in large packs or tins such as 5 L, 10 L, 15 L.



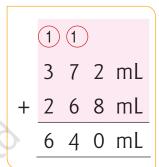
4. Oil in big tankers such as 400 L, 600 L, 800 L.



Addition and Subtraction of Capacities

Addition

To add two or more capacities in litres or millilitres, we simply add the numbers and write the unit.



Subtraction

To subtract given capacities, we simply subtract the numbers and put down the unit.



If the given capacities are in combined units, we arrange them in two columns of L and mL and then add or subtract them separately.

Add: 17 L 563 mL and 28 L 387 mL

	L mL	
	1	111
	1 7	5 6 3
+	2 8	3 8 7
_	4 5	9 5 0

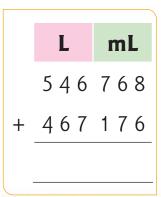
So, the sum is 45 L 950 mL.

Subtract: 47 L 485 mL from 70 L 840 mL

	L	mL
	610	13 7310
	70	840
	4 7	4 8 5
_	2 3	3 5 5

So, the difference is 23 L 355 mL.

Add:



Subtract:

	L	mL
	1 2 5	265
_	8 6	176

	L	L mL	
	603	400	
_	207	275	

	L	mL
	410	205
_	1 3 5	166

	L mL	
	287	3 1 4
_	198	275

Word Problems

1. A drum contains 37 litres of oil. Another drum contains 48 litres of oil. Both are emptied in an empty tank. How much oil is filled in the tank?







2. A fair-price shop had 820 litres of kerosene. It sold 537 litres. How much kerosene is left in the shop?



3. The petrol tank of a car had 16 L 265 mL of petrol. For completely filling the tank, 8 L 485 mL more petrol was filled into it. What is the capacity of the petrol tank of the car?





The petrol tank of a car had 22 L 500 mL of petrol. It consumed 17 L 325 mL in a trip. How much petrol was left in the tank after the trip?



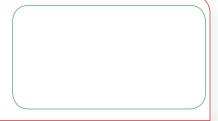
5. A tea-shop owner purchased 18 L 350 mL of milk. Out of it, 9 L 265 mL of is consumed. How much milk is left with him?







6. The capacity of a flask is 2 L 400 mL. The capacity of another flask is 2 L 125 mL. What is the difference between the capacities of the two flasks?





Point and Line

Point

Take a fine pencil.

Mark a dot with it on a piece of paper.

Name it P.

We say that P is a point.

So, a fine dot represents a point.

• P



Line

Activity 1

Take a thread.

Hold one end of it in one hand

and the other end in the other hand.

Stretch the thread straight.

We say that it forms a straight line.

Now. loosen the above thread.

What do you observe?

The straight thread, now gets curved.

Such lines are called curved lines.





Activity 2

Take a piece of plain paper.

Fold it along the middle.

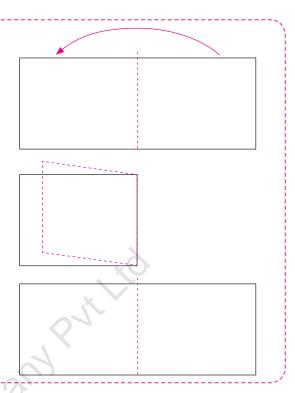
Press the fold firmly.

Open up the folded paper.

Observe the crease in the middle of the paper.

What do you notice?

The crease on the paper again resembles a straight line.



Write if the line is curved or straight.



How to Represent a Line?

We represent a line by the diagram shown below.



The arrow heads at each end tell us that the line continues without end.

Types of Lines Slanting Lines Horizontal Line Vertical Line (Sleeping Line) (Standing Line) Practice drawing horizontal line. Practice drawing vertical line.

Practice drawing slanting line.



Using a Ruler

Till now, you have drawn lines with a free hand.

But, when we draw long lines with a free hand, they may not be straight.

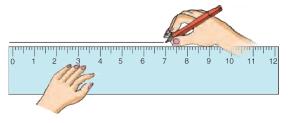
So, we use a scale or a ruler to draw straight lines.

Take a ruler and place it on a paper.

Now, move a sharpened pencil along the ruler.

Now, remove the ruler.

You see that you have drawn a straight line.



Plane Figures

Vertex: Each corner of a plane figure is called its vertex. The plural of vertex is vertices.

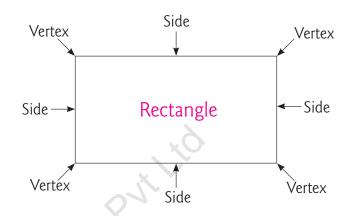
Side: The straight lines forming a plane figure are called its sides.

Rectangle

This is a rectangle.

A rectangle has four sides, and four corners, called vertices.

The opposite sides of a rectangle are equal.

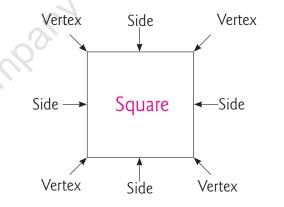


Square

This is a square.

A square has four sides.

All the sides of a square are equal.

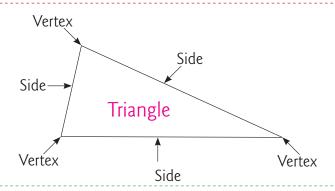


Triangle

This is a triangle.

A triangle has 3 corners or vertices.

A triangle has 3 sides.



Circle

Put a coin on the plane of your paper and move a pencil around it.

The figure you will get, is a circle.

A circle has no corners.



Write the names of each of the figures given below.				
In the space given below draw a t	riangle, a circle, a rectangle and a			
square.	6,4			
Triangle	Circle			
Rectangle	Square			

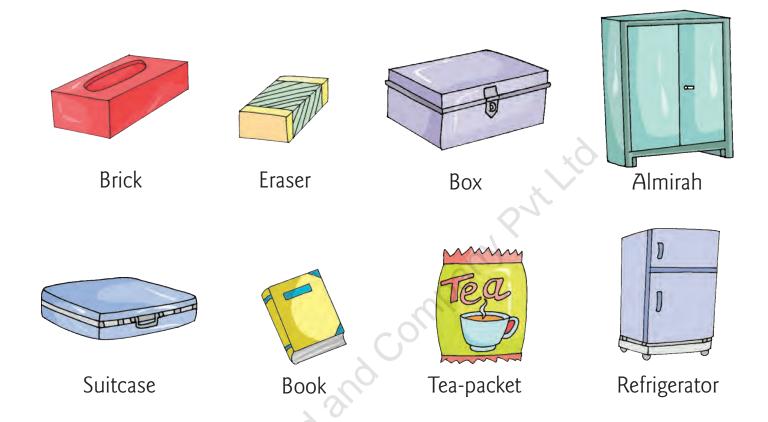
Count and colour the shapes.		
Blue or Black	Yellow or Orange	
Red or Pink	Green or Purple	
	How many? Circles Squares Rectangles Triangles	
	How many? Circles Squares Rectangles Triangles	
	How many? Circles Squares Rectangles Triangles	



Solids

Cuboid

Look at the shape of the objects shown below.

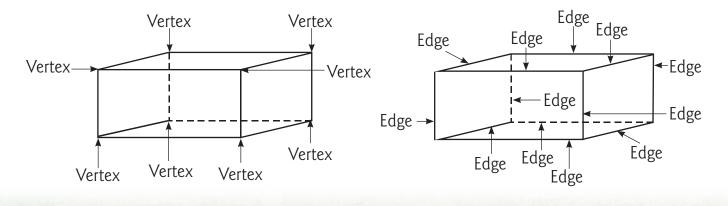


Each of these objects has the shape of a cuboid.

These are called cuboidal objects.

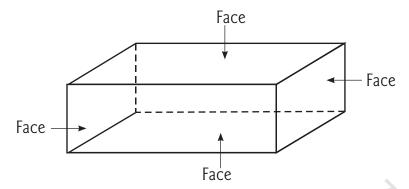
A cuboid has 8 vertices.

A cuboid has 12 edges.



A cuboid has 6 faces.

All the faces of a cuboid are rectangular in shape.

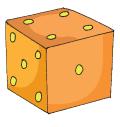


Two more faces are there, namely front face and back face.

Cube

A cuboid with all edges of the same length is a cube.

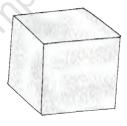
Each one of the objects given below is in the shape of a cube.



Dice



Ice cube



Sugar cube



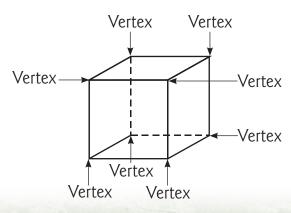
Chalk box

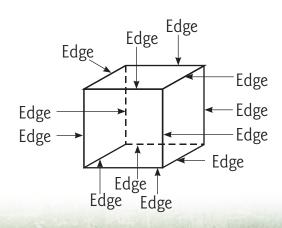
A cube has 8 vertices.

A cube has 12 edges.

A cube has 6 faces.

Each face of a cube is a square.







Sphere

Look at the shape of the objects shown below.



Each one of these objects has the shape of a sphere.

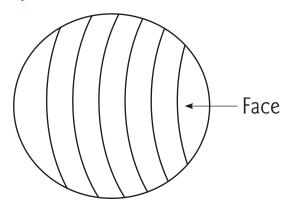
These are called spherical objects.

A sphere has one face.

A sphere has no vertex.

A sphere has no edge.

A sphere has a curved surface.



Cylinder

Look at the shape of the objects shown below.



Each one of these objects has the shape of a cylinder.

These are called cylindrical objects.

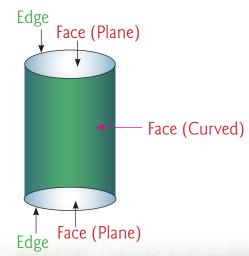
A cylinder has no vertex.

A cylinder has two edges.

A cylinder has three faces.

One face of a cylinder is a curved surface.

Two faces of a cylinder have plane surfaces.





Cone

Look at the shape of the objects shown below.



Each one of these objects has the shape of a cone.

A cone has one vertex.

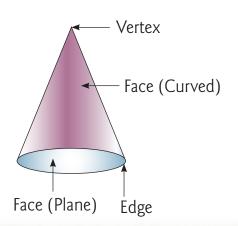
A cone has one edge.

A cone has two faces.

One face of a cone has a curved surface.

The other face of a cone has a plane surface.

Edge of a cone is also curved.



Draw the diagram of:

A cone	A sphere		A cylinder
			_
A cuboid			A cube
		Q	J.
		(h)	
		ompany	
		O()	
	29		

Fill in the blanks.

A cuboid has	vertices,	edges and	faces	
		edges and		
A cylinder has	vertex,	edges and	faces.	
A sphere has	vertex,	edges and	face.	
A cube has	vertices,	edges and	faces.	
A sphere has a	surface.			
A cylinder has two faces and one face.				
A cone has one face and one face.				

Drawing Shapes using Solids

Activity 1

Place a book on a plain sheet of paper. Hold the book tight with your left hand. Draw the outline of the book with a pencil.

Remove the book from the paper.

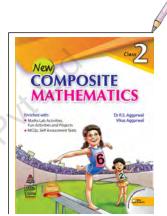
Which shape have you drawn?

A rectangle.

Repeat the above activity using other cuboidal objects like a pencil box, a tea packet or an eraser and placing them in different ways.

You will find that each time you get a rectangle.

So, we can say that each face of a cuboid is a rectangle.



Activity 2

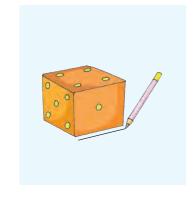
Place a dice on a plain sheet of paper. Hold the dice firmly and draw its outline with a pencil.

Remove the dice.

Which shape have you drawn?

A square.

n square.



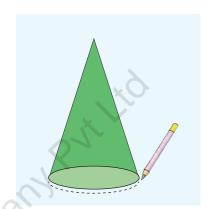
Repeat the above activity using other cubical objects such as a chalk box and placing them in different ways. You will find that each time you get a square. So, we can say that each face of a cube is a square.

Activity 3

Repeat the same process as in Activity 1 and 2 using a cylindrical tin or a conical funnel.

You will find that drawing an outline of these objects as shown gives a circle. So, we can say that cylinders and cones have circular edges.



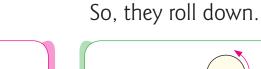


Sliding and Rolling Movements

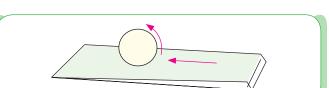
Solids with flat surfaces slide down a sloping surface.

Solids with curved surfaces roll down a sloping surface.

Cubes and cuboids have flat surfaces. So, they slide.

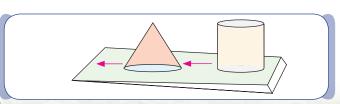


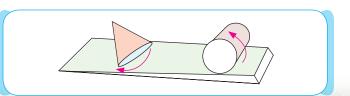
Cylinders and cones have curved and flat surfaces. They slide down on their flat surfaces.



Cylinders and cones roll along their curved surface.

Spheres have curved surface.







Clocks

As we have read earlier, a clock tells us the time.

Look at the face or dial of the clock shown here.

The dial of the clock is divided into 12 big divisions, marked as 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12.



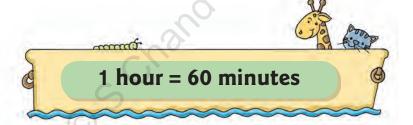
The clock has two hands – a longer hand and a shorter hand.

The longer hand is called the minute-hand.

The shorter hand is called the hour-hand.

The minute hand moves round the clock once in 1 hour.

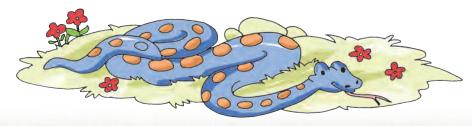




To Read time when the Minute-Hand is at 12

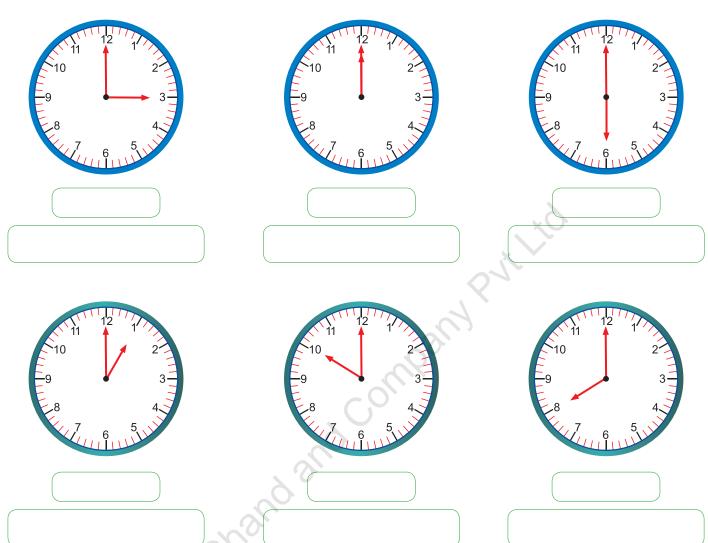
In the clock shown above, the hour-hand is at 5 and the minute-hand is at 12.

We say that the time is 5 o'clock or 5:00.

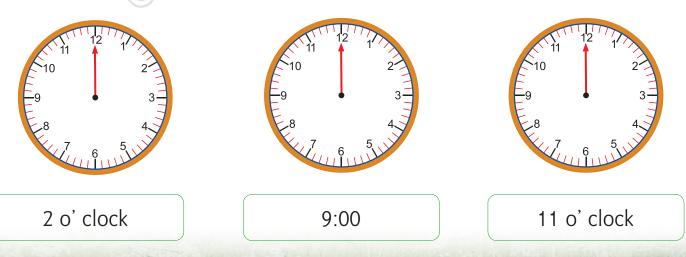




Look at the clocks and write the correct time shown by it in two different ways.

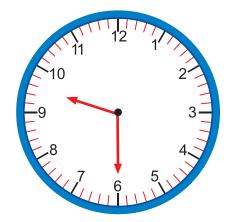


Draw the hour hand to show the given time.



To Read Time when the Minute-Hand is at 6

Look at the clock shown below.





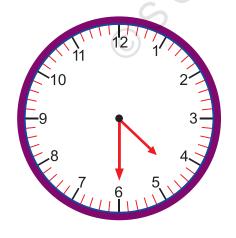
The hour-hand is beyond 9.

The minute hand is at 6.

The minute-hand has covered 30 small divisions in moving from 12 to 6. So, the minute-hand at 6 shows 30 minutes.

We say that the time is 9:30 or 30 minutes past 9.

Since the minute-hand has covered half round of the clock, we also say that the time is half past 9.



In this clock:

The hour-hand is beyond 4.

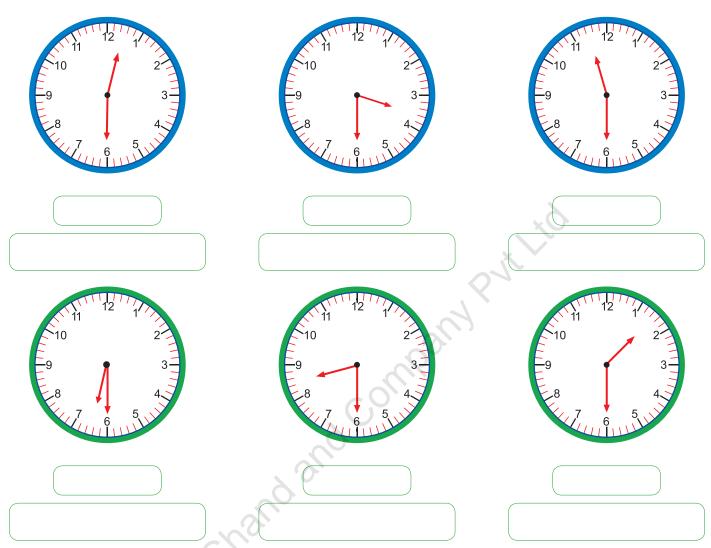
The minute-hand is at 6.

So, we say that the time is

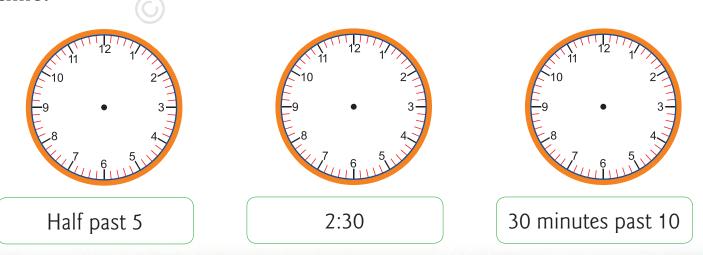
4:30 or 30 minutes past 4 or half past 4.



Look at the clocks and write the correct time shown by it in two different ways.

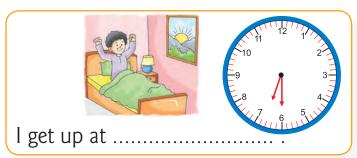


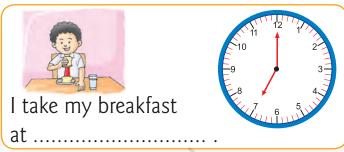
Draw the hands of each of the following clocks to show the given time.

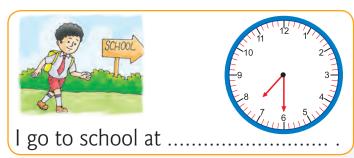


Daily Routine

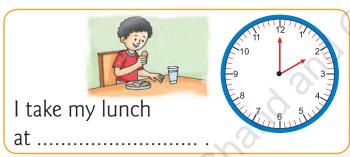
Below is given the daily routine of a boy. Fill in the correct time as shown.

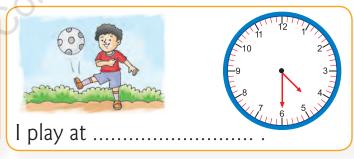


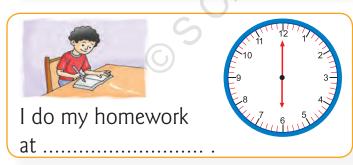




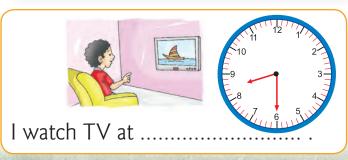


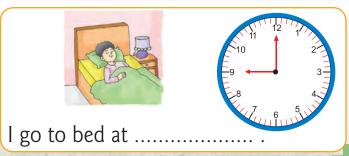












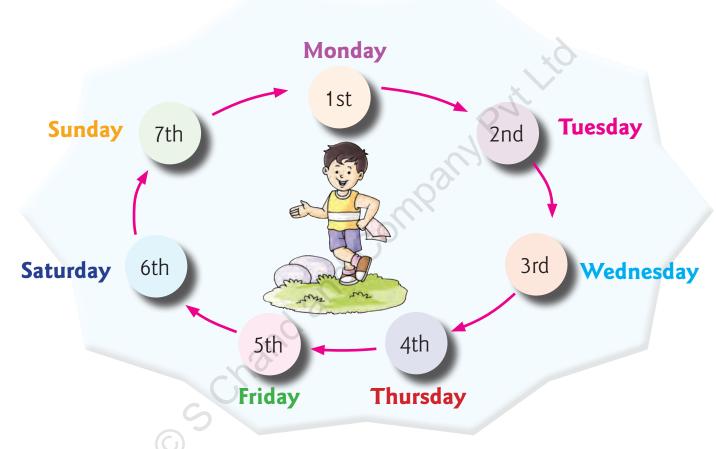
Days of the Week

There are seven days in a week.

The names of the days of a week in order are:

- 1. Monday
- 2. Tuesday
- 3. Wednesday
- 4. Thursday

- 5. Friday
- 6. Saturday
- 7. Sunday



Monday is the first day of a week.

After each Monday, Tuesday comes.

After each Tuesday, Wednesday comes and so on.

Sunday is the last day of the week.

Then, the next week starts with Monday again.

This sequence goes on.



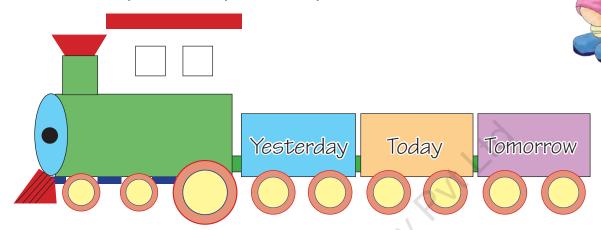


Today, Yesterday and Tomorrow

Today is the present day.

Yesterday is the day before the present day.

Tomorrow is the day after the present day.



Suppose today is Sunday.

Day before Sunday is Saturday.

So, on Sunday, we say that it was Saturday yesterday.

Day after Sunday is Monday.

So, on Sunday, we say that it will be Monday tomorrow.

Similarly, on Wednesday, we say that

- 1. it was Tuesday yesterday; and
- **2.** it will be Thursday tomorrow.

On Friday, we say that

- 1. it was Thursday yesterday; and
- 2. it will be Saturday tomorrow.

Answer the following questions.

1.	Which day comes after Wednesday?
2.	Which day comes after Sunday?
3.	Which day comes before Friday?
4.	Which day comes before Sunday?
5.	Which day comes between Tuesday and Thursday?
6.	Which is the third day of the week?
7.	Which is the fifth day of the week?
8.	If today is Thursday, what day was it yesterday?
9.	If it was Monday yesterday, what day is it today?
10.	If today is Saturday, what day will it be tomorrow?
11.	If it will be Wednesday tomorrow, what day is it today?
12.	If it was Saturday yesterday, what day will it be tomorrow?

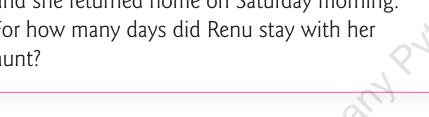
Word Problems

The school holidays started 1. on Monday and the school opened again on Thursday. How many holidays did the children get?



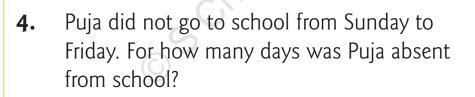
Monday Tuesday Wednesday 3

Renu went to her aunt's house on Wednesday 2. and she returned home on Saturday morning. For how many days did Renu stay with her aunt?





The Diwali Mela continued 3. from Tuesday to Thursday. For how many days did the Diwali Mela continue?



Nitin fell ill on Thursday and his illness **5**. continued till Sunday. For how many days was Nitin ill?



Months of a Year

There are 12 months in a year. The names of the months and the number of days they have, are given below.



Serial Number	Name of the month	Number of days
1.	JANUARY	31
2.	FEBRUARY	28 or 29
3.	MARCH	31
4.	APRIL	30
5.	APRIL MAY JUNE	31
6.	JUNE	30
7.	JULY	31
8.	AUGUST	31
9.	SEPTEMBER	30
10.	OCTOBER	31
11.	NOVEMBER	30
12.	DECEMBER	31

You can see that:

- 1. There are 7 months in a year, which have 31 days each.
- 2. There are 4 months in a year, which have 30 days each.
- 3. February is the only month, which has less than 30 days.

Fill	in the blanks.	
1.	There are months in a year.	
2.	is the third month of a year.	
3.	August is the month of a year	r.
4.	The tenth month of a year is	
5.	Republic Day falls in the month of	
6.	Independence Day falls in the month of	
7.	Children's Day falls in the month of	
8.	The number of months having 30 days is	
9.	The number of months having 31 days is	
Ans	swer the following questions.	
1.	Write the names of the months, each having 30 days.	
2.	Write the names of the months, each having 31 days.	
3.	Which month comes after April?	
4.	Which month comes after July?	
5.	Which month comes after October?	
6.	Which month comes before March?	
7.	Which month comes before September?	
8.	Which month comes before June?	
9.	Which month comes between March and May?	•••••
10.	Which month comes between August and October?	•••••
11.	Which is the last month of a year?	
12.	In which month were you born?	

Calendar

Calendar is the record of all the dates and days of a year. It, thus, shows the months, weeks and days in the year.



How to write dates?

When we write a date for a particular day in a year, we specify the number of the day in a month (i.e., date), the name of the month and then the year.

Example: 1st January, 2017 or January 1, 2017

2nd February, 2017 or February 2, 2017

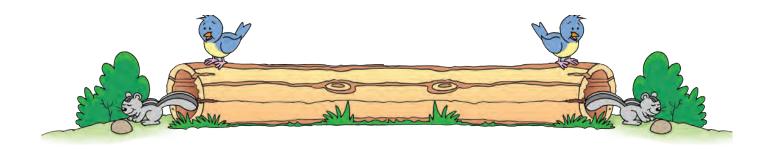
13th August, 2017 or August 13, 2017

In short, we write a date as a group of 3 numbers separated by two dots. The first number stands for the day, the second for the month and the third for the year.

(1 stands for January, 2 for February, 3 for March, ... and 12 for December)

Thus, 12th October, 2017 shall be written in short form as:





Calendar for 2017

/	,		Ja	nua	ry)	
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	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				
l							

·		Fel	brua	ary	J	
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			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				

1	March									
	Sun	Mon	Tue	Wed	Thu	Fri	Sat			
				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				
V										

/	,)					
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
							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						

/	,]	May	/]	
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		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		(O)	
V							

/	June										
۱	Sun	Mon	Tue	Wed	Thu	Fri	Sat				
	1				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					
ļ											

,,	{		July	7	J	
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						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			6	_	
`~					٠,,	

,	August										
Sun	Mon	Tue	Wed	Thu	Fri	Sat					
)	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										
Sun	Mon	Tue	Wed	Thu	Fri	Sat				
					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						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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				
Sec. 1						

November							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
			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							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
					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							

Look at the calendar for the year 2017 given on the previous page and answer the following questions.

1.	On which day does the year 2017 begin?						
2.	How many Sundays are th	nere in May, 2017?					
3.	How many Tuesdays are t						
4.	How many days are there						
5.	We know that Republic Day falls on 26th January. On which day does Republic Day fall in 2017?						
6.	Every year, 15th August is celebrated as Independence Day. On which day does Independence Day fall in 2017?						
7.	How many months in 2017 have 5 Sundays?						
8.	Write the date of your bir	thday.					
9.	On which day does your	birthday fall in the year 20	017?				
10.	Which is the last day of t	he year 2017?					
11.	1. Write each of the following dates in short and find out the day on wit falls.						
	23rd January, 2017	23.1.2017	Monday				
	5th March, 2017						
	18th May, 2017						
	11th November, 2017						
	26th September, 2017						

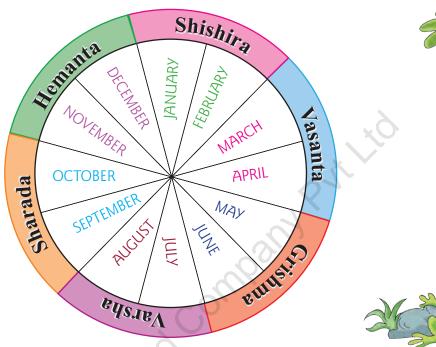
Seasons

The year is divided into six seasons.

- 1. Shishira
- **4.** Varsha

- 2. Vasanta
- 5. Sharada

- 3. Grishma
- 6. Hemanta







Shishira is the colder winter season.





Vasanta is the spring season. New flowers bloom and new leaves grow on trees. The weather is pleasant. **Grishma** is the summer season. It is very hot and we wear light-coloured cotton clothes. We like to stay indoors, with fan, cooler or AC switched on. We bathe in cold water. We enjoy having cold drinks, ice creams etc.





Varsha is the rainy season. We use umbrellas or raincoats when we go outside.

Sharada is the autumn season. Most of the trees shed their leaves during this season. It is neither too hot nor too cold. The weather is pleasant.





Hemanta is the winter season.

It is very cold.

We wear woollen clothes, use blankets or quilts at night and like to have hot drinks like tea or coffee. We bathe in hot water.

Fill in the blanks.

- **1.** The season of starts in the month of November.
- 2. comes between Sharada and Shishira.
- **3.** The season of comes after Grishma.
- **4.** The season of comes before Vasanta.
- 5. Sharada comes between and Hemanta.
- 6. In March and April, it is season.
- 7. The season of Varsha ends in the month of
- **8.** The season of comes after Hemanta.
- **9.** We like to bathe in cold water during the season of
- **10.** Umbrellas are used very often in the season of
- 11. In September and October, it is season.
- **12.** The season of Shishira ends in the month of





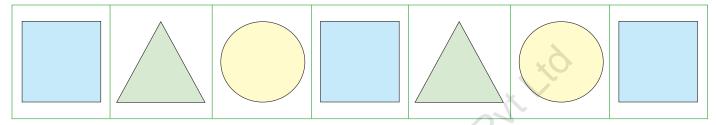






A definite sequence of figures, shapes, letters or numbers is called a pattern. The elements of a pattern follow a definite rule.

Observe the sequence shown below.



In this sequence; a square comes first, then a triangle, then a circle; again a square, then a triangle, then a circle; and so on.

So, the above sequence forms a pattern.

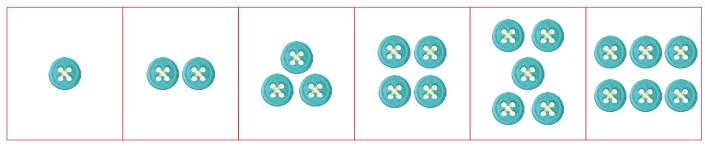
Now, observe the sequence shown below.



This sequence comprises of erect and inverted A's occurring alternately.

So, it forms a pattern.

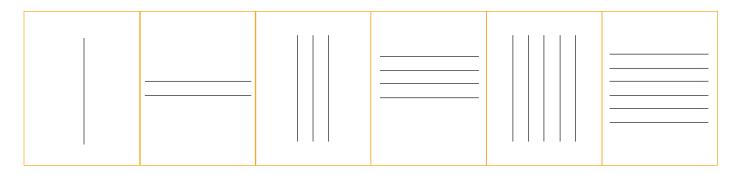
Again, look at the sequence shown below.



You must have observed, that in the above sequence, one button is added at the each step.

So, this also forms a pattern.

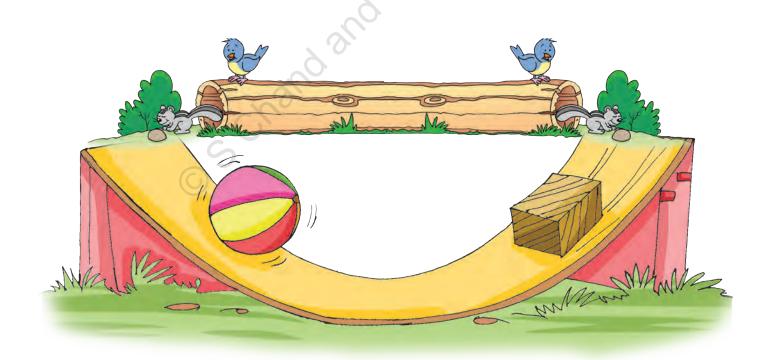
Now, observe the following sequence.



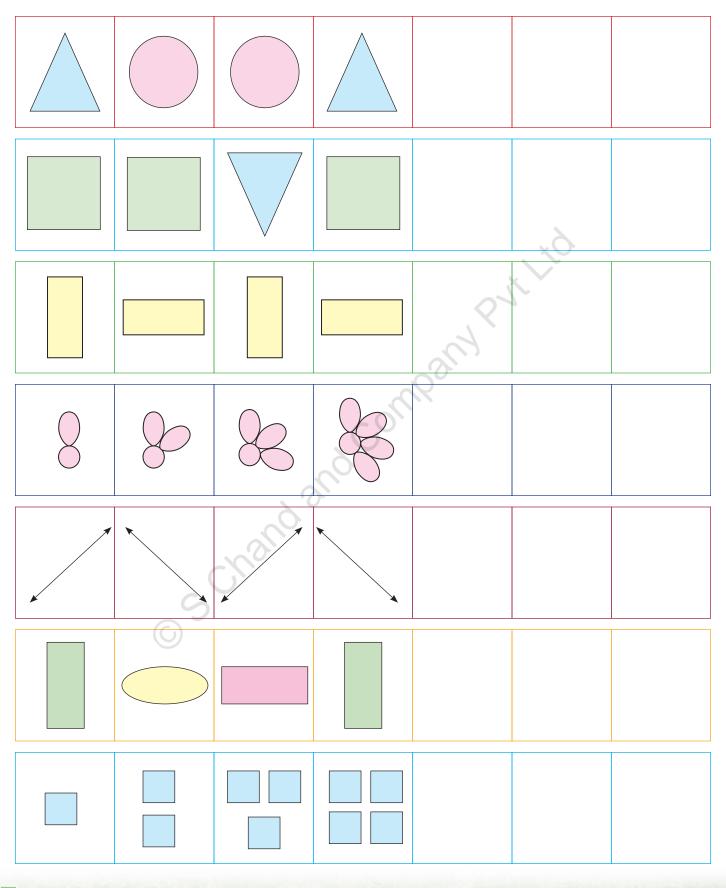
The above sequence has one vertical line in the first place; then 2 horizontal lines; then 3 vertical lines; then 4 horizontal lines and so on.

Thus, vertical and horizontal lines come alternately and one line is added at each step.

So, this sequence again forms a pattern.



Complete each of the following patterns.





C.C.E. Drill

QUESTION BAG

1. Circle all the odd numbers in collection A and all the even numbers in collection B.

			(A)		
	100		601		384
		89		(657
	445		510		376
	883			999	
1					

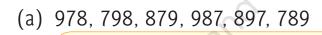
		D			
758		514		643	
401	96625	792 889	57)	990	

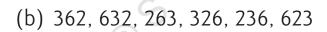
P

2. Put the correct symbol >, < or = in the placeholder.

(b)
$$200 + 70 + 4$$

3. Arrange the given numerals in ascending order.





4. Arrange the given numerals in descending order.

(a) 990, 909, 900, 919, 999, 991

(b) 587, 785, 857, 758, 578, 875

5. Add:

6. Subtract:

7. Multiply:

8. Put the correct symbol +, -, \times or \div in the placeholder.

(a)
$$27 - 9 = 18$$

9. Draw the hands of the clock to show the correct time.

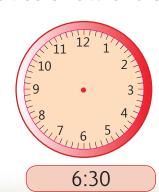
(b)

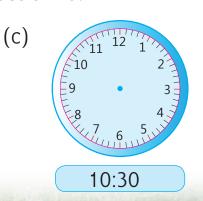
(a)

11 12 1

9 3

8:00





10.	Con	omplete each of the following number patterns.							
	(a)	313, 318, 323, 328,							
	(b)	251, 257, 263, 269,							
	(c)	452, 463, 474, 485,							
	(d)	175, 190, 205, 220,							
	(e)	565, 590, 615, 640,							
11.	Fill	in the blanks.							
	(a)	The place value of always remains the same.							
	(b)	The smallest 3-digit odd number is							
	(c)	The greatest 3-digit even number is							
	(d)	The sum of the face value and place value of 1 in 216 is							
	(e)	The sum of the place values of two 6's in 686 is							
	(f)	If we add to any number we get the same number.							
	(g)	If we multiply any number by, we get the same number.							
12.	Stat	e whether each of the following statements is true or false.							
	(a)	The place value of 2 in 235 is 2.							
	(b)	All the sides of a rectangle are equal							
	(c)	Only one month in a year has less than 30 days							
	(d)	The hands of the clock are exactly opposite to each other at 6:00.							
	(e)	There are five 25-paise coins in a rupee.							

13. Write two division facts for each of the following multiplication facts.

(a)
$$9 \times 8 = 72$$

(b)
$$7 \times 4 = 28$$

(c)
$$8 \times 6 = 48$$

14. Divide using multiplication tables.

(a)
$$40 \div 5 =$$

(b)
$$63 \div 9 =$$

(c)
$$50 \div 10 =$$

(d)
$$49 \div 7 =$$

(e)
$$32 \div 8 = ($$

(f)
$$54 \div 6 =$$

15. Fill in the placeholders.

(a)
$$1 \text{ m} = \bigcirc$$
 cm

(c)
$$1 \text{ kg} =$$

$$(d) 1 L = mL$$

16. Fill in the suitable unit to measure.

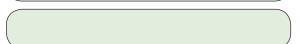
(a) The height of a man



(b) The length of a pencil



(c) Quantity of nail polish in a bottle



(d) Quantity of milk in a glass



(e) Quantity of petrol filled in a car



(f) Weight of a bag of wheat



(g) Weight of a mobile phone

17.	Nan	ne the months of the year, having 31 days each.
18.		umber is 89 more than 656. at is the number?
19.	How	v much is 285 less than 532?
20.	How	w much is 514 greater than 279?
21.	Fill	in the blanks.
	(a)	A triangle has sides and vertices.
	(b)	A square has sides and vertices.
	(c)	Each face of a cube is a
	(d)	Cylinder and cone have edges.
	(e)	Solids with surfaces slide.
	(f)	At half past an hour, the minute hand is at
	(g)	The ninth month of the year is
	(h)	If yesterday was Friday, then tomorrow will be
	(i)	There are days in a year.

Multiple Choice Questions

Tick (\checkmark) the correct answer.

1.	The sum of the face value and place value of 9 in 691 is							
	(a) 909	(b) 90	(c) 91	(d) 99				
2.	 Arun interchanges the hundreds and tens digit of the numeral 673. By how much is the number increased? (a) 80 (b) 89 (c) 90 (d) 99 							
	(a) 80	(b) 89	(c) 90	(d) 99				
3.	Find the next no	umber in the sequ	uence 5, 8, 11,	14, 17,				
	(a) 18	(b) 19	(c) 20	(d) 21				
4.	How many ever	n numbers are the	ere between 40	and 60?				
	(a) 8	(b) 9	(c) 10	(d) None of these				
5.	Which of the fo	ollowing groups c	ontains only e	ven numbers?				
	(a) 684, 516, 88	39, 252, 158	(b) 222, 444,	666, 888, 111				
	(c) 336, 555, 77	72, 994, 118	(d) 578, 892,	770, 614, 306				
6.	What must be	added to 266 to r	nake it 400 ?					
	(a) 134	(b) 136	(c) 144	(d) 146				
7.	A cuboid has	faces,	vertices	and edges.				
	(a) 8,8,8	(b) 6,8,12	(c) 6,6,12	(d) 8,8,12				
8.	Find the next no	umber in the sequ	uence 285, 325	5, 365,				
	(a) 385	(b) 405	(c) 395	(d) 415				
9.	If you take away	y 8 tens from 8 hi	undreds, you g	get				
	(a) 680	(b) 780	(c) 720	(d) 740				
10.	A story begins many pages lon		56 and ends	at page number 81. How				
	(a) 24	(b) 25	(c) 26	(d) 27				
11.	The sum of two	numbers is 812.	If one of them	is 468, what is the other?				
	(a) 334	(b) 338	(c) 344	(d) 348				

12.	. How many months in a year have 30 days each?						
	(a) 4	(b) 5	(c) 6	(d) 7			
13.	A cylinder has	vertices,	edg	es and faces.			
	(a) 1, 2, 3	(b) 0, 2, 3	(c) 0, 4, 3	(d) 3, 3, 2			
14.	There are 8 baskets of mangoes. Each basket contains 72 mangoes. How many mangoes in all are there in the baskets?						
	(a) 536	(b) 546	(c) 566	(d) 576			
15.	5. If the day before yesterday was Sunday, what will be the day tomorrow?						
	(a) Tuesday	(b) Wednesday	(c) Thursday	(d) Friday			
16.	How many mo	nths lie between A	August and De	cember?			
	(a) 3	(b) 4	(c) 5	(d) 6			
17.	7. Choose the incorrect statement:						
	(a) $54 + 89 = 96 + 47$ (b) $79 + 97 = 211 - 35$						
	(c) $96 + 67 = 192 - 39$ (d) $66 + 66 = 44 + 88$						
18.	The two hands	of the clock are to	ogether at				
	(a) 12:00	(b) 6:00	(c) 12:30	(d) 6:30			
19.	How many 5-pa	aise coins are ther	e in a rupee?				
	(a) 10	(b) 15	(c) 20	(d) 25			
20.		month is Tuesday		•			
	(a) 7th	(b) 8th	(c) 9th	(d) 10th			
21.	_ , , , , , , , , , , , , , , , , , , ,						
	(a) 56	(b) 64	(c) 68	(d) 72			
22.	If 1 litre of milk	costs ₹ 29, the c	ost of 9 litres o	of milk is			
	(a) ₹ 226	(b) ₹ 241	(c) ₹ 249	(d) ₹ 261			
23.	How many diffe	erent triangles can	you count in	the given figure?			
	(a) 3		(b) 4				
	(c) 5		$(d) 6 \qquad \angle$				

24.	_	_		in a school. Each section has 24 boys ts are there in Class 3?				
	(a) 145	(b)	175	(c) 185	(d)	195		
25.	How man	ny 25-paise	coins are	there in ₹ 5	?			
	(a) 10	(b)	15	(c) 20	(d)	25		
26.	If 3 students sit on each of the 1 standing. How many students ar						ents are left	
	(a) 54	(b)	52	(c) 50				
27.	Which of	the follow	ing groups	s of months	s have 31	days each	?	
	(a) April a	and July		(b) Janı	ary and J	une		
	(c) May a	nd Septem	ber	(d) Mar	ch and O	ctober		
28.	There are	24 hours i	n a day. H	ow many h	ours are t	here in a v	veek?	
	(a) 148	(b)	154	(c) 162	(d)	168		
29.	• How many days are there in all in September?			C_{O}	in the three months of July, August and			
	(a) 90	(b)	91	(c) 92	(d)	93		
30.	I have one	e vertex, on	e plane fac	e, one curve	one curved face and one edge. Who am I			
	(a) Cube	(b)	Cylinder	(c) Con) Cone (d) Sphere			
31.	31. Sachin bought a bag worth ₹ 184, a pencil box worth ₹ 78 arworth ₹ 56. He gave a 500-rupee note to the shopkeeper. How money did he get back?				• .			
	(a) ₹ 182	(b)	₹ 192	(c) ₹ 23	38 (d)	₹ 260		
			Ar	nswers				
	1. (d)	2. (c)	3. (c)	4. (b)	5. (d)	6. (a)	7. (b)	
	8. (b)	9. (c)	10. (c)	11. (c)	12. (a)	13. (b)	14. (d)	
	15. (b)	16. (a)	17. (c)	18. (a)	19. (c)	20. (c)	21. (c)	
	22. (d)	23. (c)	24. (c)	25. (c)	26. (b)	27. (d)	28. (d)	
	29. (c)	30. (c)	31. (a)					
	In Addition of the	A STATE OF THE PARTY OF THE PAR		1. 1. 1. 1. 1. 1. 1. 1.		Gibble Street	ALL AND DESIGNATION	