HICON SERIES

CLASS 1 LESSON 6

MATHEMATICS
ADDITIONS AND SUBTRACTIONS

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LESSON
PART 5

6 ADDITION AND SUBTRACTION

READY ... STEADY

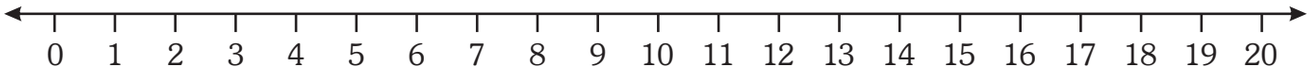
Add by counting forward, using your fingers.

13	12	15	7
+ 6	+ 2	+ 1	+ 9
☐	☐	☐	☐

Subtract by counting backward, using your fingers.

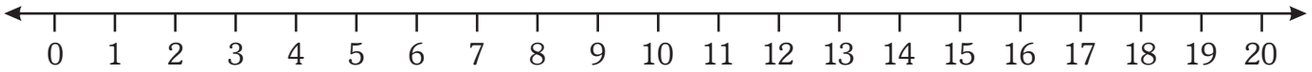
15	17	14	18
– 5	– 6	– 3	– 9
☐	☐	☐	☐

Add on the number line.



3 + 8 = ☐

Subtract on the number line.



15 – 9 = ☐

ADDITION OF TENS

Add 20 and 30.

Step 1: Add the ones.

0 ones + 0 ones = 0 ones.

Step 2: Add the tens.

2 tens + 3 tens = 5 tens.

	T	O
	2	0
+	3	0
	5	0

Add the numbers and write the answers in the blanks.

	T	O
	1	0
+	5	0

	T	O
	3	0
+	2	0

	T	O
	4	0
+	3	0

	T	O
	8	0
+	1	0

	T	O
	7	0
+	2	0

	T	O
	6	0
+	2	0

	T	O
	3	0
+	1	0

	T	O
	4	0
+	4	0

	T	O
	7	0
+	1	0

	T	O
	6	0
+	3	0

	T	O
	5	0
+	3	0

	T	O
	2	0
+	3	0

ADDITION ON NUMBER LINE

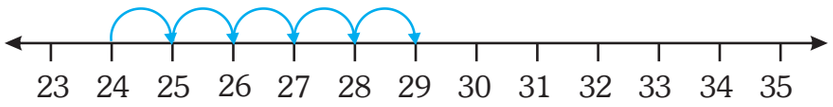
You can add by counting forward on a number line.

Add 24 and 5.

Start at 24.

Count 5 forward.

The answer is 29.

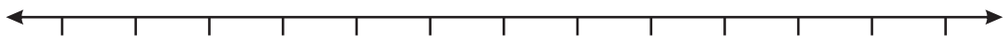


Add on number line. Make your own number line.

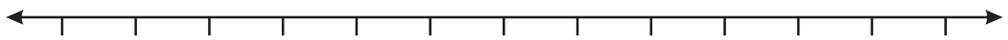
2 3
+ 5
☐

3 5
+ 4
☐

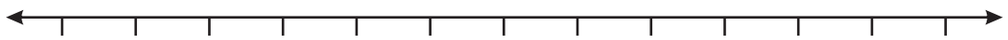
5 6
+ 8
☐



7 1
+ 9
☐



8 4
+ 4
☐



ADDITION OF 2-DIGIT NUMBERS

We can add by adding ones first and then tens.

Example 1 : Add 34 and 5.

Step 1: Add the ones.

4 ones + 5 ones = 9 ones.

Step 2: Add the tens.

3 tens + 0 tens = 3 tens.

	T	O
	3	4
+		5
	3	9

Let us see one more example.

Example 2 : Add 25 and 14.

Step 1: Add the ones.

5 ones + 4 ones = 9 ones.

Step 2: Add the tens.

2 tens + 1 ten = 3 tens.

	T	O
	2	5
+	1	4
	3	9

Add the following.

	T	O
	2	3
+		5

	T	O
	3	1
+		6

	T	O
	4	2
+		7

	T	O
	5	6
+		2

	T	O
	6	4
+		2

	T	O
	8	2
+		5

	T	O
	7	0
+		8

	T	O
	9	1
+		3

	T	O
+	6	2
		2

	T	O
+	2	3
		6

	T	O
+	4	5
		4

	T	O
+	5	4
		1

	T	O
+	9	1
		3

	T	O
+	3	4
		2

	T	O
+	8	3
		5

	T	O
+	7	5
		3

	T	O
+	2	7
	2	2

	T	O
+	3	4
	3	3

	T	O
+	6	4
	3	1

	T	O
+	4	2
	4	3

	T	O
+	1	4
	6	1

	T	O
+	2	2
	3	5

	T	O
+	5	2
	2	4

	T	O
+	3	1
	5	3

	T	O
+	7	2
	1	5

	T	O
+	8	1
	1	5

	T	O
+	5	8
	1	0

	T	O
+	4	5
	3	1

FACTS ON ADDITION

When we add zero to a number, the number remains the same.

Eg. : 68 + 0 = 68 72 + 0 = 72 81 + 0 = 81

Adding two numbers in either order gives the same answer.

33 + 24 = 57 24 + 33 = 57

42 + 35 = 77 35 + 42 = 77

Add the following.

	T	O
+	8	1
		0

	T	O
+	9	4
		0

	T	O
+	3	6
		0

	T	O
+	5	9
		0

Add the following.

	T	O
+	3	5
	2	3

	T	O
+	2	3
	3	5

	T	O
+	3	9
	2	0

	T	O
+	2	0
	3	9

	T	O
+	5	6
	3	2

	T	O
+	3	2
	5	6

	T	O
+	6	0
	2	4

	T	O
+	2	4
	6	0

ADDITION WITH CARRYING

Add 28 and 46.

Step 1: Write the digits in tens and ones in columns.

28 = 2 tens 8 ones

46 = 4 tens 6 ones

Step 2: Add the ones column first.

8 ones + 6 ones = 14 ones

We know that 14 ones = 1 ten 4 ones.

Write 4 under the ones column and carry 1 to the tens column.

Step 3: Add the tens column.

carried 1 ten + 2 tens + 4 tens = 7 tens

Put 7 under the tens column.

	T	O
	①	
	2	8
+	4	6
	7	4

Add with carrying.

	T	O
	3	4
+	2	9

	T	O
	2	4
+	4	9

	T	O
	2	6
+	3	8

	T	O
	6	7
+	2	5

	T	O
	7	1
+	1	9

	T	O
	6	1
+	2	9

	T	O
	6	5
+	2	6

	T	O
	1	3
+	7	8

	T	O
+	3	4
	2	7

	T	O
+	4	2
	3	8

	T	O
+	7	2
	1	8

	T	O
+	5	6
	2	6

	T	O
+	2	8
	3	9

	T	O
+	4	2
	3	8

	T	O
+	4	3
	2	9

	T	O
+	2	8
	4	4

	T	O
+	7	9
	1	9

	T	O
+	3	7
	2	8

	T	O
+	2	6
	5	5

	T	O
+	1	5
	6	8

	T	O
+	5	8
	2	6

	T	O
+	3	3
	4	9

	T	O
+	4	8
	2	4

	T	O
+	5	8
	1	9

	T	O
+	7	9
	1	8

	T	O
+	6	2
	1	9

	T	O
+	2	6
	3	9

	T	O
+	3	6
	2	7

MATHS LAB

Objective : To teach the concept of putting things together

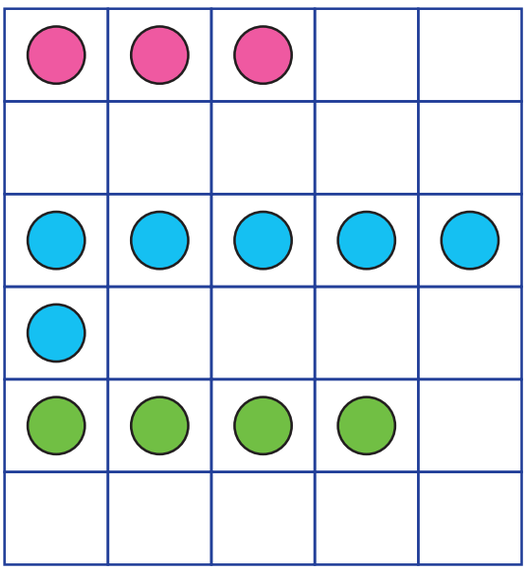
Materials Required : Counters (Available in Math Kit)

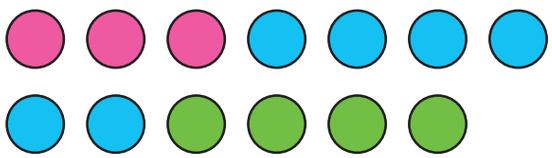
Steps :

1. Ask the children to work in pairs. Give 10 counters to each group.
2. Now call out 3 numbers say 3, 6 and 4.
3. Ask the students to make groups of 3 and 6 counters.
4. Ask them to put together both the groups and count how many there are i.e. 9.
5. Again ask the students to make groups of 9 and 4 counters.
6. Ask them to put together both the groups and count how many there are i.e. 13.

   Let them say aloud, 3, 6 and 4 make 13.

   Repeat the above steps with different numbers.





ADDITION OF 3-NUMBERS

For adding 3 numbers, first add 2 numbers and then add the 3rd number to the total of the first 2 numbers.

Add : 3, 5 and 4.

$$3 + 5 + 4$$

$$8 + 4 = 12$$

Add the following.

2 + 3 + 4	3 + 4 + 5	4 + 5 + 6
2 + 3 + 3	8 + 4 + 5	5 + 6 + 7
9 + 7 + 3	4 + 4 + 2	8 + 2 + 1

WORD PROBLEMS

There are 18 boys in a class.
There are 20 girls in the class.
How many students are there in all ?

	T	O
+		

Ankit had 30 toffees.
Neha gave him 15 more.
How many does Ankit have now ?

	T	O
+		

Karan bought 45 story books.
Rohit gave him 17 more.
How many does Karan have now ?

	T	O
+		

Shreya bought 37 candies.
She bought 18 more.
How many does she have now ?

	T	O
+		

There are 45 pencils in a box.
15 pencils are added.
How many pencils are there now ?

	T	O
+		

SUBTRACTION OF TENS

Subtract 30 from 70.

Step 1 : Subtract the ones.

0 ones – 0 ones = 0 ones

Step 2 : Subtract the tens.

7 tens – 3 tens = 4 tens.

	T	O
	7	0
–	3	0
	4	0

Subtract the numbers and write the answers in the blanks.

	T	O
	4	0
–	2	0

	T	O
	5	0
–	1	0

	T	O
	6	0
–	3	0

	T	O
	8	0
–	2	0

	T	O
	7	0
–	1	0

	T	O
	8	0
–	4	0

	T	O
	5	0
–	3	0

	T	O
	8	0
–	5	0

	T	O
	4	0
–	3	0

	T	O
	2	0
–	1	0

	T	O
	3	0
–	2	0

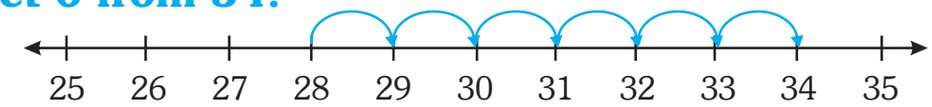
	T	O
	9	0
–	7	0

SUBTRACTION ON NUMBER LINE

We can subtract by counting backward on a number line.

Example : Subtract 6 from 34.

Start at 34.



Count backwards 6 times.

The answer is 28.

Subtract on number line. Make your own number line.

3 5
– 8

6 8
– 7

8 7
– 1

5 4
– 9

SUBTRACTION OF 2-DIGIT NUMBERS

We can subtract by subtracting the ones first and then the tens.

Example 1 : Subtract 4 from 48.

Step 1 : Subtract the ones.

8 ones – 4 ones = 4 ones

Step 2 : Subtract the tens.

4 tens – 0 tens = 4 tens.

	T	O
	4	8
–		4
	4	4

Have a look on, one more example.

Example 2 : Subtract 14 from 66.

Step 1 : Subtract the ones.

6 ones – 4 ones = 2 ones

Step 2 : Subtract the tens.

6 tens – 1 ten = 5 tens

	T	O
	6	6
–	1	4
	5	2

Subtract the following.

	T	O
	3	8
–		3

	T	O
	8	7
–		4

	T	O
	5	8
–		6

	T	O
	6	3
–		1

	T	O
	6	6
–		5

	T	O
	9	4
–		2

	T	O
	7	9
–		8

	T	O
	5	7
–		5

	T	O
−	4	9
		2

	T	O
−	5	6
		6

	T	O
−	7	6
		3

	T	O
−	3	5
		5

	T	O
−	7	5
		2

	T	O
−	6	8
		4

	T	O
−	9	7
		7

	T	O
−	8	4
		3

	T	O
−	8	9
	7	3

	T	O
−	3	8
	2	4

	T	O
−	6	6
	3	3

	T	O
−	5	5
	1	4

	T	O
−	7	7
	1	5

	T	O
−	9	3
	4	3

	T	O
−	4	4
	2	3

	T	O
−	4	9
	3	2

	T	O
−	8	9
	4	6

	T	O
−	6	7
	5	7

	T	O
−	7	8
	6	1

	T	O
−	5	6
	2	4

SUBTRACTION WITH BORROWING

Subtract 26 from 62.

Step 1 : In ones place 2 < 6. So, we cannot subtract 6 from 2. Borrow 1 ten from 6 tens. 5 tens are left in tens place.

Step 2 : Ones place → 1 ten + 2 ones
= (10 + 2) ones = 12 ones.

Step 3 : 12 – 6 = 6. Write 6 under ones place.

Step 4 : 5 tens – 2 tens = 3 tens. Write 3 under tens place.

	T	O
	5	12
	~~6~~	~~2~~
–	2	6
	3	6

Subtract the following.

	T	O
	7	2
–	3	7

	T	O
	2	2
–	1	8

	T	O
	6	0
–	1	5

	T	O
	6	2
–	4	9

	T	O
	3	8
–	2	9

	T	O
	5	8
–	3	9

	T	O
	4	2
–	2	9

	T	O
	5	5
–	1	9

	T	O
	7	6
–	4	8

	T	O
	8	1
–	7	9

	T	O
	9	3
–	6	8

	T	O
	4	2
–	2	5

	T	O
	3	1
–	1	9

	T	O
	4	8
–	3	9

	T	O
	9	6
–	6	8

	T	O
	8	5
–	5	7

	T	O
	8	7
–	2	8

	T	O
	5	2
–	3	5

	T	O
	7	4
–	4	6

	T	O
	3	1
–	1	6

	T	O
	6	4
–	3	9

	T	O
	6	3
–	4	7

	T	O
	4	3
–	2	8

	T	O
	9	5
–	3	6

	T	O
	5	2
–	2	7

	T	O
	7	5
–	5	8

	T	O
	8	2
–	4	9

	T	O
	5	6
–	2	7

	T	O
	6	1
–	4	8

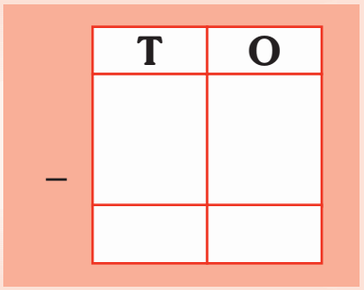
	T	O
	3	7
–	1	9

	T	O
	7	4
–	6	5

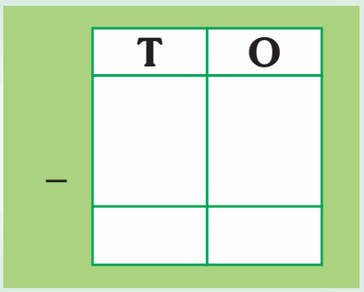
	T	O
	4	3
–	1	6

WORD PROBLEMS

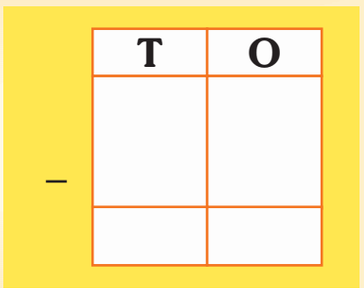
There are 56 books in a shelf. Sita took 24 books. How many books are left in the shelf ?



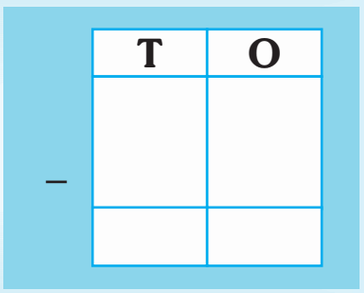
There are 32 persons in a bus. 22 are men. How many women are there in the bus ?



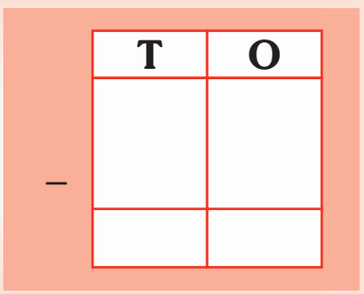
Roma collected 22 flowers. She gave her friend 15 flowers. How many flowers does Roma have now ?



Riya has 50 rupees. She spent 29 rupees. How much money is left with Riya ?



There are 59 students in a class. 32 are boys. How many are girls ?



WORKSHEET

Fill in the missing numbers in the web.