# Addition

When we put things together, we 'add' them

The sign used for addition is '+' and is read as plus.

- The numbers we add are called as augend and addend.
- The answer we get is called sum

# Example:

# **Properties**

Changing the order of numbers during addition does not change the answer.

$$15+14 = 14+15$$

Zero added to any number gives the same number.

$$29 + 0 = 29$$

One added to any number gives the number just after it

$$36+1 = 37$$

# Exercise 2.1

# Q1. Change the order of the addend and augend and find the sum.

Q2. Add zero and find the sum.

(a) 
$$37 + 0 =$$

(b) 
$$45 + 0 = 45$$
 (c)

(c) 
$$63 + 0 =$$

$$81 + 0 = 81$$

(e) 
$$98 + 0 = 98$$

$$56 + 0 =$$

Q3. Add one and find the number just after.

(a) 
$$52 + 1 = 53$$

(b) 
$$37 + 1 = 38$$
 (c)

(c) 
$$83 + 1 =$$

(d) 
$$65 + 1 = 66$$

(e) 
$$76 + 1 = 77$$
 (f)

63

56

Adding three 2-digit numbers: Let us find the sum of 12, 24 and 31 using coloumn method

Step 1: Add ones

Step 2: Add tens

So

# Exercise 2.2

# Q1. Add the following.

68

(b) 20

15

+42

77

(c) 54

21

+11

(d) 14

32

+43

(e) 60

17

+12

(f)

10

71 +13

94

(g)

45 21

+32

98

(h)

12

15

+61

88

- Q2. In an orchard there are 34 mango trees, 42 coconut trees and 21 apple trees. How many trees are their in the orchard in all? 9 1 trees
- Q3. In a class 12 students like to study Science, 24 like English and 10 like Maths. Find the total number of students in the class. = 4 6 Students
- Q4. Ria purchased 30 rose flowers, 24 lotus flowers and 15 lilies for the decoration. How many flowers did she purchase altogether? = 69

# Addition with regrouping

flowers

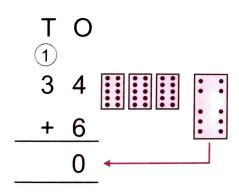
Regrouping to Tens: If there are more than 9 ones we need to regroup

Example: 7 ones + 3 ones = 10 ones

Adding 2-digit number with 1-digit number

Let us learn to add 34 and 6

Regrouping means rearranging the numbers to make addition easier to solve.



#### Step 1:

#### Add ones:

Here 4 ones + 6 ones = 10 ones. Regroup 10 ones as 1. Regroup 10 ones as 1 ten and write 0 in the ones place below. Carry over 1 to the tens column.

## Step 2: Add tens:

Here 1 ten + 3 tens = 4 tens.

Write 4 in tens place below

T (1)	0		
3	4	and	
+	6		
4	0		



Step 1: Add ones, then regroup and carry over

T (1)	0	
4	2	
+ 3	8	
8	0	

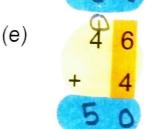
(c)

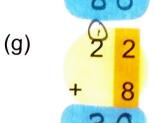
So,		
	4	2
	+ 3	8
	8	0

# Exercise 2.3

Q1. Regroup and add the following.







Q2. Find the sum by regrouping to ten.

Q3. Milkman supplied 46 litres of milk in the morning and 34 litres of milk in the evening. Find the total quantity of milk supplied in a day.



- Q4. Sanya painted 29 pots while Shreya painted 31 pots. How many pots did they paint altogether? = 60 pots
- Q5. Vaibhav purchased 53 chocolates. Ritika purchased 7 more chocolates than Vaibhav. Find the number of chocolates Ritika purchased. = 6 🔾

Regrouping more than ten: If there are more than 10 ones.

charolates

So,

then we regroup them as tens and ones.

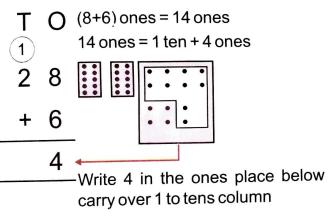
Example: 8 ones + 6 ones = 14 ones

14 ones = 1 ten + 4 ones

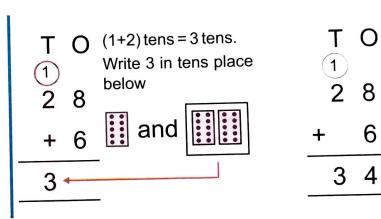
### Adding 2-digit number with 1-digit number:

Let us learn to add 28 and 6

#### Step 1: Add ones

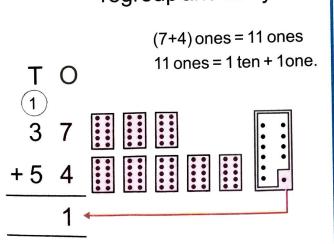


#### Step 2: Add tens



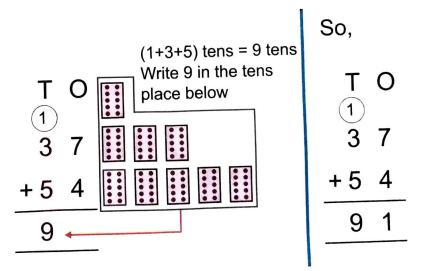
Adding 2-digit number with 2-digit number: Let us learn to add 37 and 54

Step 1: Add ones then regroup and carry over



Write 1 in the ones place below and carry over 1 to the tens coloumn.

## Step 2: Add tens



# Exercise 2.4

#### Q1. Find the sum.

- (a) 3 4
- (b) 4 6
- (c) 8 4
- (d) 7 3

43

53

92

82

- (e) 5 6 + 6
- (f) 6 4 + 7
- (g) 2 9 + 5
- (h) 3 8 + 5

# Q2. Add the following.

- (a) 2 6 + 5 5
- (b) 1 4
- (c) 1 6 + 6 5
- (d) 37 + 59

81

- 88
- 81
- (h) 5 3 + 2 0

- (e) 6 4 + 2 9
- (f) 2 8 + 4 6
- (g) 4 6 + 3 7
- Q3. Find the numbers formed and add.
- (a) ...
- •••••
- (b)

- (c)
- ... +
- (d)
- + ....

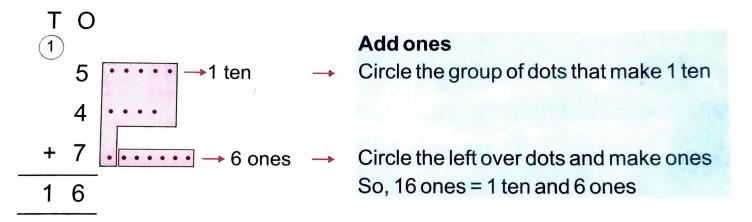
- (e)
- +

- (f)
- +

- Q4. Nitya collected 34 stamps and Gauri collected 49 stamps. How many stamps did they collect in all? = 83 stamps
- Q5. There were 26 beads in the string. Saumya added 5 more beads. Find the number of beads in the string now. = 21 beads
- Q6. In a cricket match Mohan scored 63 runs. Aditya scored 19 runs more than Mohan. How many runs did Aditya score? = 9 2 9 www.

Adding three 1-digit numbers with regrouping

Let us learn to add 5 + 4 + 7



#### Let us now learn to add numbers in two different ways

Find the sum of 4 + 3 + 8 in two different ways

I way: 
$$(4+3)+8=15$$

**II Way:** 
$$4 + (3+8) = 15$$



#### Find the sum. Look for a ten.

- (a) 3
- (b)
- (c) 8 6
- (d)

St

- (e) 9
- (f) 5 6
- (g)
- (h)

- 22. Add in two different ways.
- a) 3
- (b)
- 8
- (c)

2

- 3

3

- 8

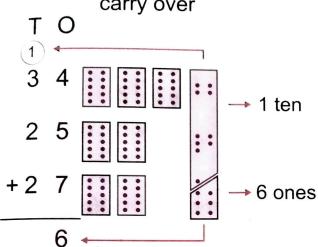
- 5

- 9 5
- 5
- 6
- 6 20
- (e)
  - - 6 6
    - 8 8
- (f)
- . Rohan has 4 blue kites, 7 green kites and 5 yellow kites. Find the total number of kites he has in all. = 16 Kites
- Mother purchased 6 mangoes, 4 pine apples and 2 papayas. Find the total number of fruits she purchased in all. = 12 founds
- There are 7 parrots, 2 peacocks and 3 sparrows sitting on the tree. Find the total number of birds sitting on the tree. - 12 bisds

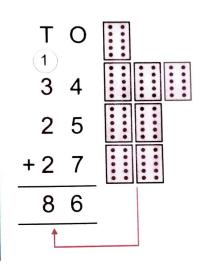
### Adding three 2-digit numbers with regrouping

Let us learn to add 34, 25 and 27

Step 1: Add ones, then regroup and carry over

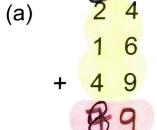


Step 2: Add tens



# Exercise 2.6

Q1. Add the following.

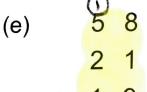


(b)

(c)

6

(d)



(f)

(g)

(h)

- Q2. In a bus there are 26 men, 27 women and 39 children. Find the total 2 persons number of persons in the bus. =
- Q3. Ritika spent ₹35 on a pencil box, ₹20 on a note book and ₹19 on a pen. Find the total money spent by Ritika. = 774

Q4. There are 36 blue marbles, 24 green marbles and 16 red marbles

in the box. Find the total number of marbles in the box. oldrem 07 Q5. Addition on the number grid

	_1	2	3	4	5	6	7	8	9	10	L
	11	12	13	14	15	16	17	18	19	20	a 4
	21	22	23	24	25	26	27	28	29	30	4
	31	32	33	34	35	36	37	38	39	40	•
	41	42	43	44	45	46	47	48	49	50	•
The same of the sa	51	52	53	54	55	56	57	58	59	60	
MANUFACTURE REPORT OF THE PROPERTY OF THE PROP	61	62	63	64	65	66	67	68	69 <sup>v</sup>	70	•
大大の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の	71	(72)	73	74	75	76	77	78	79	80	,
The second secon	81	82	83	84	85	86	87	88	89	90	
Of the latest and the	91	92	93	94	95	96	97	98	99	100	

Let us learn to add 42 and 2<sub>6 i.e</sub> 42 + 26

- 42 + (20+6)Start with 42
- Go down tw

62

 From 62 mg forward 6 step

boxes to rea

You reach 68

Remember: Start with the bigger number

: It makes addition easier as further we have to move less steps