

2 ADDITION

Warm Up

1. Type the marks each animal has got. **ANS**

2. Give a star ★ to the one who has got the highest marks.

★ goes to _____

11 + 0

11

12 + 3

15

7 + 3

10

11 + 8

19

4 + 5

9

14 + 4

18

Guru

Tigu

Linu

Biru

EiU

ADDING 2-DIGIT NUMBERS

Aman has 35 cherries and Ankit has 22. How many cherries are there in all?

STEP 1 Add the ones.

T	O
3	5
+	2
2	7

5 ones + 2 ones = 7 ones

STEP 2 Add the tens.

T	O
3	5
+	2
5	7

3 tens + 2 tens = 5 tens

35 + 22 = 5 tens + 7 ones = 57

There are 57 cherries in all.

ADDING THREE 2-DIGIT NUMBERS

On Tuesday, 23 children, 15 women and 10 men visited a zoo. How many people visited the zoo in all?

STEP 1 Add the ones.

T	O
2	3
+	1
1	5
+	1
1	0
8	

STEP 2 Add the tens.

T	O
2	3
+	1
1	5
+	1
4	8

48 people visited the zoo in all.

Addition facts

<p>Adding zero</p> <p>When you add zero to a number, the sum is the number itself.</p> <p>9 + 0 = 9 10 + 0 = 10</p>	<p>Adding 1</p> <p>When you add 1 to a number, the sum is the next number.</p> <p>6 + 1 = 7 10 + 1 = 11</p>	<p>Order of addition</p> <p>Numbers can be added in any order. Their sum will remain the same.</p> <p>2 + 3 = 5 3 + 2 = 5</p>
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Exercise 2.1

1.
$$\begin{array}{r} 51 \\ + 17 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 12 \\ + 20 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 61 \\ 10 \\ + 27 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 30 \\ 36 \\ + 22 \\ \hline \end{array}$$

STORY SUMS

1. Solve these sums. **ANS**

1. Nikita planted 12 trees. Jose planted 22 trees. Salma planted 31 trees. How many trees did they plant in all?

T	O
1	2
+	2
2	2
+	3
6	5

2. Harpreet picked up 62 pieces of paper. Udai picked up 21 and Leena picked up 16. How many pieces of paper did they pick up in all?

T	O
6	2
+	2
8	2
+	1
9	3

ADDITION WITH REGROUPING

Regrouping to make ten

Add 24 and 6 on the abacus.

STEP 1

Tens Ones

24 = 2 tens + 4 ones

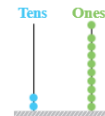
Tens Ones

6 = 6 ones

I can add on the abacus.

STEP 2

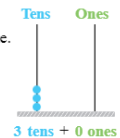
To add 6 to 24, you have to add 6 beads to the 4 beads in the ones spike of 24. There will be 4 + 6 = 10 beads in the ones spike. There cannot be 10 beads in any spike. Regroup 10 ones as 1 ten and 0 ones. So, remove all the beads from the ones spike.



STEP 3

You got 1 ten in Step 2. So, add 1 more bead to the 2 beads in the tens spike. Now there are 2 + 1 = 3 beads in the tens spike.

24 + 6 = 30



Bhanu had collected 33 marbles. Manu gave her 7 more marbles. How many marbles does Bhanu have in all?



STEP 1

T	O
1	3
+	3
+	7
0	

Add the ones.
3 ones + 7 ones = 10 ones
Regroup the ones.
10 ones = 1 ten + 0 ones

STEP 2

T	O
1	3
+	3
+	7
4	0

Carry over 1 ten to the tens column.
Add the tens.
1 ten + 3 tens = 4 tens

Bhanu has 40 marbles in all.

Aditya has collected 46 pictures of animals and Zoya has collected 34. How many pictures have they collected in all?

STEP 1

T	O
1	4
+	3
+	6
0	

Add the ones.
6 ones + 4 ones = 10 ones
Regroup the ones.
10 ones = 1 ten + 0 ones

STEP 2

T	O
1	4
+	3
+	6
8	0

Carry over 1 ten to the tens column.
Add the tens.
1 ten + 4 tens + 3 tens = 8 tens

Aditya and Zoya have collected 80 pictures in all.

Regrouping to make more than ten

Harjeet has invited 24 school friends for his birthday party. He has also invited 18 friends from his neighbourhood. How many friends has he invited in all?



STEP 1

T	O
1	2
+	4
+	8
2	

Add the ones.
4 ones + 8 ones = 12 ones
Regroup 12 ones.
12 ones = 1 ten + 2 ones

STEP 2

T	O
1	2
+	4
+	8
4	2

Carry over 1 ten to the tens column.
Add the tens.
1 ten + 2 tens + 1 ten = 4 tens

Harjeet has invited 42 friends in all.

Meera has 8 red and 19 blue bangles. How many bangles does she have in all?



T	O
1	1
+	9
+	8
2	7

9 ones + 8 ones = 17 ones
17 ones = 1 ten + 7 ones
Carry over 1 ten to the tens column.
1 ten + 1 ten = 2 tens

Meera has 27 bangles in all.

HOTS Questions

Aman, Rohit and Mehul are running in the Number Marathon. If the numbers held by Aman and Rohit add to 47, find out the numbers made by **ANS**

1. Rohit and Mehul. _____ 2. Aman and Mehul. _____

Aman: 28, Rohit: 19, Mehul: 37

Exercise 2.2

A. Type the numbers and add. ANS

1.

3	2
+	8
4	0

2.

1	3
+	7
8	0

3.

1	3
+	7
4	0

4.

1	3
+	7
4	0

B. Add. ANS

1.

1	1
+	1
1	9

2.

1	6
+	7
7	4

3.

2	7
+	4
4	3

4.

4	9
+	2
2	1

5.

1	8
+	6
6	2

6.

2	5
+	2
2	5

7.

3	2
+	2
2	8

Remember to add and regroup the ones first.

Complete the magic triangles. ANS

1.

3	3
9	
3	3

2.

4	6
13	
3	6

3.

5	7
3	7

4.

6	8
16	
	8

HOTS Questions

Quick TIP

Number bonds using 4 to 9

8	4+4	8	4+5	9	4+6	10	4+7	11	4+8	12	4+9	13
8	5+4	9	5+5	10	5+6	11	5+7	12	5+8	13	5+9	14
9	6+4	10	6+5	11	6+6	12	6+7	13	6+8	14	6+9	15
10	7+4	11	7+5	12	7+6	13	7+7	14	7+8	15	7+9	16
11	8+4	12	8+5	13	8+6	14	8+7	15	8+8	16	8+9	17
12	9+4	13	9+5	14	9+6	15	9+7	16	9+8	17	9+9	18
13		14		15		16		17		18		

Exercise 2.3

Add. ANS

1.

4	3
+	9
1	3

2.

3	3
+	4
7	8

3.

1	9
+	5
6	9

4.

3	7
+	1
4	7

5.

4	4
+	2
6	7

6.

2	3
+	2
4	8

7.

6	5
+	1
7	6

8.

3	9
+	8
1	1

9.

6	8
+	8
1	4

10.

7	5
+	7
1	2

11.

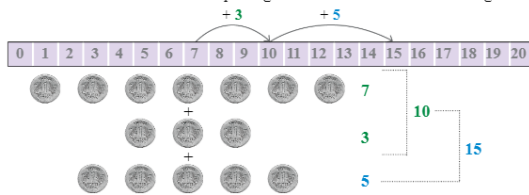
2	8
+	6
8	4

First add and regroup the ones.

ADDING MORE THAN TWO NUMBERS

Meera has 7 coins. Mummy gives her 3 more. Grandpa gives her another 5. How many coins does Meera have in all?
Meera has $7 + 3 + 5$ coins in all.

Start at 7. Count forwards 3 steps to get 10. Count 5 more. You will get 15.



Meera adds 7 and 3 to make 10. Then she adds 5 to 10.

Meera has 15 coins in all.

To add, group the numbers. Check if the sum of any two numbers is 10.

I Can Do It!

A. Add. First regroup two numbers to make ten. **ANS**

1. $5 + 4 + 6 =$ 2. $2 + 3 + 5 =$ 3. $3 + 7 + 6 =$
4. $2 + 3 + 8 =$ 5. $7 + 2 + 8 =$ 6. $4 + 4 + 6 =$

B. Add to double. **ANS**

1. $1 + 1 =$ 2. $5 + 5 =$ 3. $9 + 9 =$
4. $3 + 3 =$ 5. $6 + 6 =$ 6. $2 + 2 =$
7. $7 + 7 =$ 8. $4 + 4 =$

Doubling means adding the same number twice.

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Quick TIP

$7 + 6$ is 1 more than $6 + 6$.
 $9 + 8$ is 1 less than $9 + 9$.



Doubles help us to add quickly in our heads.

There are 18 plants, 17 plants and 12 plants in Mrs Rao's garden. How many plants are there in all?

STEP 1

$$\begin{array}{r} \text{T O} \\ 18 \\ + 17 \\ \hline 35 \end{array}$$

Add the ones.
 $8 \text{ ones} + 7 \text{ ones} + 2 \text{ ones} = 17 \text{ ones}$
Regroup 17 ones.
 $17 \text{ ones} = 1 \text{ ten} + 7 \text{ ones}$

STEP 2

$$\begin{array}{r} \text{T O} \\ 18 \\ + 17 \\ \hline 35 \end{array}$$

Carry over 1 ten to the tens column.
Add the tens.
 $1 \text{ ten} + 1 \text{ ten} + 1 \text{ ten} + 1 \text{ ten} = 4 \text{ tens}$

There are 47 plants in all.

There are 24 animals, 19 animals and 18 animals in a pond. How many animals are there in all?

STEP 1

$$\begin{array}{r} \text{T O} \\ 24 \\ + 19 \\ \hline 43 \end{array}$$

Add the ones.
 $4 \text{ ones} + 9 \text{ ones} + 8 \text{ ones} = 21 \text{ ones}$
Regroup 21 ones.
 $21 \text{ ones} = 2 \text{ tens} + 1 \text{ one}$

STEP 2

$$\begin{array}{r} \text{T O} \\ 24 \\ + 19 \\ \hline 43 \end{array}$$

Carry over 2 tens to the tens column.
Add the tens.
 $2 \text{ tens} + 2 \text{ tens} + 1 \text{ ten} + 1 \text{ ten} = 6 \text{ tens}$

There are 61 animals in all.

35

Exercise 2.4

1. Add. **ANS**

1. $\begin{array}{r} 20 \\ 14 \\ + 32 \\ \hline \end{array}$ 2. $\begin{array}{r} 65 \\ 11 \\ + 7 \\ \hline \end{array}$ 3. $\begin{array}{r} 12 \\ 13 \\ + 26 \\ \hline \end{array}$ 4. $\begin{array}{r} 31 \\ 32 \\ + 28 \\ \hline \end{array}$
5. $\begin{array}{r} 34 \\ 24 \\ + 14 \\ \hline \end{array}$ 6. $\begin{array}{r} 24 \\ 16 \\ + 15 \\ \hline \end{array}$ 7. $\begin{array}{r} 26 \\ 4 \\ + 33 \\ \hline \end{array}$ 8. $\begin{array}{r} 60 \\ 9 \\ + 14 \\ \hline \end{array}$
9. $\begin{array}{r} 24 \\ 38 \\ + 18 \\ \hline \end{array}$ 10. $\begin{array}{r} 32 \\ 45 \\ + 18 \\ \hline \end{array}$ 11. $\begin{array}{r} 16 \\ 27 \\ + 37 \\ \hline \end{array}$ 12. $\begin{array}{r} 25 \\ 37 \\ + 9 \\ \hline \end{array}$

ORDER OF ADDITION

1. Class 2 went for a picnic to Nehru Park. There were 22 boys, 37 girls and 8 teachers. How many people in all went for the picnic? **ANS**

$$\begin{array}{r} \text{T O} \\ 22 \text{ boys} \\ 37 \text{ girls} \\ + 8 \text{ teachers} \\ \hline \end{array}$$

people



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_____ people in all went for the picnic.

Now change the order of numbers and add. **ANS**

$$\begin{array}{r} \text{T O} \\ 8 \text{ teachers} \\ 37 \text{ girls} \\ + 22 \text{ boys} \\ \hline \end{array}$$

people

Remember, you can add numbers in any order. The answer will remain the same.



Exercise 2.5

1. Solve these sums. **ANS**

1. Mother washed 34 towels, 13 sheets and 28 pillow covers. How many items in all did she wash?

$$\begin{array}{r} \text{T O} \\ 34 \text{ towels} \\ 13 \text{ sheets} \\ + 28 \text{ pillow covers} \\ \hline \end{array}$$

items

REORDER

$$\begin{array}{r} \text{T O} \\ 13 \text{ sheets} \\ 28 \text{ pillow covers} \\ + 34 \text{ towels} \\ \hline \end{array}$$

items

2. During the holidays Meera went to Delhi for 7 days, Shimla for 16 days and Jaipur for 8 days. For how many days was Meera on holidays?

$$\begin{array}{r} \text{T O} \\ 7 \text{ days in Delhi} \\ 16 \text{ days in Shimla} \\ + 8 \text{ days in Jaipur} \\ \hline \end{array}$$

total number of days

REORDER

$$\begin{array}{r} \text{T O} \\ 16 \text{ days in Shimla} \\ 8 \text{ days in Jaipur} \\ + 7 \text{ days in Delhi} \\ \hline \end{array}$$

total number of days

Life Skills

1. Jatin helped his mother. He folded 12 towels, 10 sheets and 18 pillow covers.

How many items in all did he fold? **ANS**

$$\begin{array}{r} \text{T O} \\ \hline \end{array}$$

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Maths Lab Activity

Aim: To play with addition

You will need: Black and white carrom coins, two buttons of different colours, a grid of random numbers

Steps

1. Play the game in pairs. Player A plays with black carrom coins and Player B with white carrom coins.
2. Place the buttons between the two players.
3. Player A places 2 buttons over any 2 numbers on the number grid. For example, over the numbers 4 and 5.
4. Player B adds the 2 numbers and places a white carrom coin over their sum. Here, it will be on 9, as $4 + 5 = 9$.
5. Next, Player B picks up one button and moves it to another number on the number grid.
6. Player A adds the 2 new numbers and places a black carrom coin on their sum.

16	12	14	9
3	2	4	1
10	15	5	8
7	6	11	13

The two players take turns to move the buttons, add the numbers and place their coins on the number grid. They do this till one of the players covers a complete line of numbers, horizontally or vertically. The player with the most lines covered is the winner.

Rules

1. You can place buttons only on numbers whose sum is present on the number grid. Otherwise, you lose a turn.
2. You cannot place more than one coin or button on a number.
3. If you place the coin on a wrong number, you lose a turn.



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Mental Maths

A. Use the number grid to add. **ANS**

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

Example

$34 + 12 = ?$

$12 = 10 + 2$

Go to 34, move 1 box down (+10) to 44.

From 44 move 2 boxes forwards (+2).

$44 \rightarrow 45 \rightarrow 46$

So, $34 + 12$ is the same as $34 + 10 + 2 = 46$

One box down is 10 more.



1. $62 + 25 = \underline{\quad}$
2. $19 + 24 = \underline{\quad}$
3. $21 + 48 = \underline{\quad}$
4. $36 + 51 = \underline{\quad}$
5. $35 + 25 = \underline{\quad}$
6. $73 + 16 = \underline{\quad}$

B. Add the numbers in the squares to fill in the circles. **ANS**

1. $\boxed{4} - \boxed{9} - \boxed{6} = \bigcirc$
2. $\boxed{6} - \boxed{3} - \boxed{7} = \bigcirc$
3. $\boxed{5} - \boxed{5} - \boxed{7} = \bigcirc$
4. $\boxed{4} - \boxed{6} - \boxed{5} = \bigcirc$
5. $\boxed{8} - \boxed{2} - \boxed{6} = \bigcirc$
6. $\boxed{5} - \boxed{5} - \boxed{5} = \bigcirc$
7. $\boxed{7} - \boxed{1} - \boxed{9} = \bigcirc$
8. $\boxed{9} - \boxed{2} - \boxed{8} = \bigcirc$



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Worksheet

- A. Click and place the red colour on the apple if the sum is more than 50. Click and place the green colour on the apple if the sum is less than 50. ANS**

1.
$$\begin{array}{r} 26 \\ + 34 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 32 \\ + 48 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 13 \\ + 17 \\ \hline \end{array}$$



4.
$$\begin{array}{r} 21 \\ + 49 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 45 \\ + 6 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 39 \\ + 23 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 25 \\ + 23 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 38 \\ + 9 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 55 \\ + 16 \\ \hline \end{array}$$

- B. Add to find the value of each word. ANS**

C	L	I	M	A	T	E
1	2	3	4	5	6	7

1. ME = 4 + 7 = 11
 2. MAT = + + =
 3. ATE = + + =
 4. LATE = + + + =
 5. TIME = + + + =

