



G3.24 | QUICK ADDITION & SUBTRACTION BY NO. GRIDS

Number Operations Concepts - NCERT Chapter 6: Fun with Give and Take (sum upto 999)

Students will build fluency in addition and subtraction problems involving 2 digit numbers using number grids

40- 50 min

PRE REQUISITES:

G3.15 Know how to add and subtract using 10x10 grid



PLAY

	+10	
-1	37	+1
26	27	28
	17	
	-10	

Solve the number puzzle



PROCESS

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

Demonstrate addition and subtraction using number grid



PRACTICE

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

Wrote the question on the black board and ask the students to solve

TLM

None

MISCONCEPTIONS

None

KEY VOCABULARY

None

- Draw the puzzle on the black board as shown
- Tell the students that numbers increase by 10 as we go up one square. Numbers decrease by 10 as we go down one square
- Point out that 37 is immediately above 27 in the puzzle
- Tell students that numbers increase by 1 if move to the right and decrease by one if we move left

- Ask the students to draw the puzzle in their notebooks and add one square in each direction
- Make more such puzzles by replacing the numbers
- Ask students to extend the cross till it is not possible to decrease numbers further

- Write numbers 1-100 in a 10X10 number grid
- Remind students that moving from any number to the number immediately above it represents subtraction of 10 from the no.
- Remind students that moving from any number to the number immediately below it represents an addition of 10 to the no.
- Tell students this trick can be used to quickly add or subtract numbers.
- Write 69- 22

- Circle 69 on the number grid. Tell students that you will subtract 20 by moving 2 rows upwards
- Next subtract the remaining 2 by moving 2 squares to the left.
- Write 16+ 67. Remind the students that addition is commutative, therefore we either start with 16 and add 67 or start with 67 & add 16
- Explain its quicker to start with the bigger no. & add the smaller no. Show 67+16 using the no. grid

- Help the students solve question 3 from the worksheet. Ask the students to solve 14+53 using the number grid

QUESTION: Which number did you start with? 53 or 14? Why?

- Help the students solve question 5 from the worksheet. Ask the students to find out how much more is 56 than 13

1	2	3	4	5	9	7	8	9	10
11	12	13	14	25	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



① SOLVED EXAMPLE : Add 32 to 13. Add 13 to 32 . Is the sum the same?

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

② Subtract 67 from 85

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

③ Add 14 to 53 (14 + 53)

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

④ A classroom has 56 chairs 23 of the chairs were taken away. How many chairs are left ? 56+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

⑤ How many more is 56 than 13

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



Avinash scored 25 in English, 21 in Maths, and 19 in Hindi. Find his total score using a number grid. How many should he get in Science to get a total score of 100?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
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31	32	33	34	35	36	37	38	39	40
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91	92	93	94	95	96	97	98	99	100