



G3.20 | ADDITION OF NO.S CAN BE DONE IN ANY ORDER

Number Operations Concepts - NCERT Chapter 3: Give and Take (sum upto 999)

Students will learn that addition of two no.s can be done in any order

40- 50 min

PRE REQUISITES:

G3.16 Know how to add 2-digit no.s

TLM



10 × 10 grids drawn on sheets of paper

MISCONCEPTIONS

Students know commutative property of addition but fail to apply it to solving. They quickly say $8 + 3 = 11$ not $3 + 8 = 11$

KEY VOCABULARY
None



PLAY

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

12+64

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

64+12

Revise addition using no. grid

○ Make a no. grid 1-100 on the black board. Write $12 + 64$ & ask a student to add 64 to 12 using the no. grid

○ Remind students that moving to the cell in the immediate next row represents adding 10 to the no.

○ Write $64 + 12$ & ask another student to add 12 to 64 using the no. grid

QUESTION
Is $64 + 12$ the same as $12 + 64$?

○ Point out that adding 12 to 64 is easier than adding 64 to 12 & both give the same result

○ Call a student & ask them to add 34 & 56

QUESTION
Which no. will you begin from? Why?

○ Repeat the activity with other students



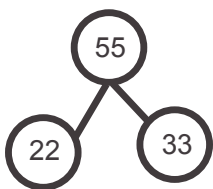
PROCESS

$$22 + 33 = 55$$

$$33 + 22 = 55$$

$$55 = 33 + 22$$

$$55 = 22 + 33$$



Understanding the commutative property of addition

○ Remind the students that addition represents putting together two collections. Show 2 fingers of your right hand

○ Show 4 fingers of your left h&m. Tell the students that there are 6 fingers in all. Write $2 + 4 = 6$

○ Now show 4 fingers of your right hand & 2 fingers of your left. Tell that there are still 6 fingers in all. Write $4 + 2 = 6$

○ Tell the students that the order of no.s to in an addition statement does not affect the sum

○ Write & draw no. bonds as shown 22, 33, & 55 on the blackboard as shown

○ Add 22 to 33 using the vertical algorithm & explain that the two smaller no.s can be added to make 55

○ Add 33 to 22 using vertical algorithm & explain that the sum is still 55



PRACTICE

34 + 178	672
561 + 111	121
178 + 34	212
78 + 112	90

Write the question on the black board & ask the students to solve

○ Help the students solve question 2 from the worksheet. Ask the students to match the no. no.s with their sums

25	+	129	=
35	+	459	=

○ Emphasize to the students that once they have added $34 + 178$ they need not add $178 + 34$. $34 + 178$ equals $178 + 34$

○ Help the students solve question 3 from the worksheet. Ask the students to fill in the missing no.s

$$\boxed{25} + \boxed{129} = \boxed{129} + \boxed{}$$

$$\boxed{35} + \boxed{459} = \boxed{459} + \boxed{}$$

QUESTION
Why is $20 + 10 = 10 + 20$ but $20 - 10$ is not equal to $10 - 20$?



① SOLVED EXAMPLE : Write addition statements for the no.s given:

a. 34, 78, 44

$$\boxed{} + \boxed{} = \boxed{}$$

$$\boxed{} + \boxed{} = \boxed{}$$

c. 42, 61, 103

$$\boxed{} + \boxed{} = \boxed{}$$

$$\boxed{} + \boxed{} = \boxed{}$$

b. 56, 39, 95

$$\boxed{} + \boxed{} = \boxed{}$$

$$\boxed{} + \boxed{} = \boxed{}$$

d. 215, 205, 420

$$\boxed{} + \boxed{} = \boxed{}$$

$$\boxed{} + \boxed{} = \boxed{}$$

② Match the no.s with their sums

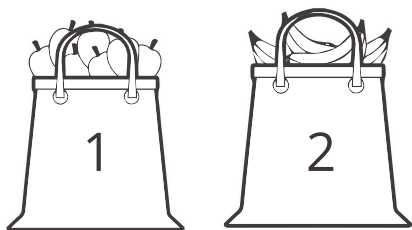
$34 + 178$	672
$561 + 111$	121
$178 + 34$	212
$78 + 21$	90

③ Fill in the missing boxes:

$$\boxed{25} + \boxed{129} = \boxed{129} + \boxed{}$$

$$\boxed{35} + \boxed{459} = \boxed{459} + \boxed{}$$

④ The first bag has 25 bananas & 15 mangoes. The second bag has 15 bananas & 26 mangoes. Which bag has more no. of fruits? Is it possible to say the answer without calculation?



⑤ There are 46 mangoes in the first bag & 57 mangoes in the second bag. Priya counted it as $46 + 57 = 103$. Soorya counted it as $57 + 46 = 93$. Soorya said that their answers are not the same because they changed the order. Is Soorya's statement correct? Explain your answer.



$$67 + 23 + 12 = 102$$

$$\text{What is } 23 + 12 + 67 =$$

$$\text{What is } 12 + 67 + 23 =$$