



G3.21 | REGROUP & SUBTRACT 3-DIGIT NO.S VERTICALLY

Number Operations Concepts - NCERT Chapter 6: Fun with Give and Take

Students will learn to subtract 3-digit numbers vertically by regrouping (borrowing)

40- 50 min

PRE REQUISITES:

G2.37 Know how to subtract 2-digit numbers using vertical algorithm

TLM



Counters (10 green, 20 yellow, and 20 red)

MISCONCEPTIONS

None

KEY VOCABULARY

None



PLAY

Hundreds	Tens	Ones
5	6	3
	4	2

Hundreds	Tens	Ones
	4	2



Subtraction using counters to represent Hundreds, Tens, and Ones

QUESTION
How can I take away 42 pencils?

QUESTION
How can I take away 33 pencils?

TEACHER'S NOTE
Loose match sticks, matchboxes with 10 sticks, & full matchboxes can be replaced for the counters

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PROCESS

H	T	O
3	14	3
3	5	6
0	9	8

Step by step demonstration of subtraction of 3 -digit numbers

Write 454-346. Use different shapes to represent Hundreds, Tens & Ones as shown. Explain first Ones are subtracted from 4

Tell that 1 Ten is equal to 10 Ones. Tell you will borrow Ones from the Tens digit leaving 4 Tens in the Tens. column

Strike off one diamond shape from the Tens column and draw 10 circles in the Ones column

Tell the students that you will now subtract 6 from 14 to get 8. Write 8 in the Ones column

Point to the tens column and tell that $4 < 5$. Explain that you will borrow 1 hundred or 10 Tens from the Hundreds column

Strike off one square and draw 10 diamond shapes in the Tens column. Tell the students $14-5$ is 9

Write 9 in the Tens column

Point to the Hundreds column and tell students $3-3=0$. Write 0 in the Hundreds column as shown



PRACTICE

832 - 371		
7	13	
8	3	2
- 3	7	1
6	6	1



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

Help the students solve question 3 from the worksheet. Ask the students to subtract the two numbers

Ensure that the students write the digits in the correct place value column. Emphasize that that the first digit from the right represents Ones, second digit represents Tens, and third digit from the left represents Hundreds

Help the students solve question 4 from the worksheet. Ask the students to find the mistake in calculations

H	T	O
7	14	19
8	4	9
- 6	5	6
1	9	13



G3.21 | SUBTRACTION IN VERTICAL ALGORITHM WITH REGROUPING (3 DIGIT NUMBER)

WORKSHEET: NUMBER OPERATIONS CONCEPTS - NCERT CHAPTER 6: FUN WITH GIVE AND TAKE (NUMBER PATTERNS SECTION LISTED SEPARATELY) (NUMBER LINE ALSO USED FOR ADDITION AND SUBTRACTION- IT WAS ONLY ONE PAGE)

① SOLVED EXAMPLE : Subtract the following:

	H	T	O
	3	4 3	5 15
-		3	7
=	3	0	8

② Complete the subtraction

	H	T	O
	2	7	0
-		1	5
=			5

③ Write the numbers in the place value chart and subtract

a) 832 - 371

b) 659 - 243

c) 897 - 230

	H	T	O
-			

	H	T	O
-			

	H	T	O
-			

④ Spot the mistake in the calculations

	H	T	O
	7 8	14 4 5	19 9
-	6	5	6
=	1	9	13

⑤ Spot the mistake in calculations and correct it

	H	T	O
	8	5	6
-	6	5	9
=	2	0	3



Without calculating estimate whether 450-300 would be greater than 550 - 300. Why do you think so?
Check your estimate by subtracting the numbers