



G3.19 | ADD 3-DIGIT NO.S. VERTICALLY BY REGROUPING

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

Students will add 3-digit numbers vertically with regrouping using numerical methods.

50 min

PRE REQUISITES:

G3.17 Know how to add 3-digit numbers in vertical algorithm (pictorially and numerically)

TLM

None

MISCONCEPTIONS

Students mistake addition of 0 with adding the digit 0 to a number. Eg. Students write $6+0 = 60$

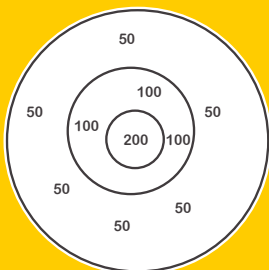
KEY VOCABULARY

None



PLAY

$$50 + 50 + 100 = 200$$



Play the game and add your score

Draw concentric circles as shown on the floor of the classroom.
Divide students in groups of 4

Ask each group to take 2 turns throwing a piece of chalk from some distance and record their scores

Give all the teams their turns

Once all the teams have had their turns, ask teams to add to their scores and compare their scores

TEACHER'S NOTE

Encourage the students to write their scores in form of vertical algorithm and add



PROCESS

Step by step addition using vertical algorithm

Write $657 + 235$. Draw a place value table and write the digits of the two numbers in the appropriate columns

Explain to the students that the first digit from the right represents Ones, the 2nd digit from right represents Tens

The third digit from the right represents Hundreds. Tell the students that they should first add the Ones digits

Add the numbers in the Ones column, $7 + 5 = 12$. Tell the students that 12 has 1 ten and 2 ones

Therefore, 1 ten must be carried over to the tens column. Add the numbers in the Tens column $5 + 3 + 1 = 9$

Write 9 in the Tens column. Add the numbers in the Hundreds column, $6 + 2 = 8$. Write 8 in the Hundreds

Summarize that one must first add the ones digits

If the sum of the digits is 10 or more then 1 is carried forward to the Tens column



PRACTICE



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

Help the students solve question 3 from the worksheet. Ask the student to add the two number

QUESTION
How much is $0+6$?

Remind the students that the addition of 0 to any number gives the same number

Help the students solve question 3 from the worksheet. Narrate the question and ask the students to write the numbers as Hundreds, Tens, and Ones



① SOLVED EXAMPLE : Add

	H	T	O
	7	2	4
+	2	3	9
=	9	6	3

② Complete the addition

a.	H	T	O
		1	
+	3	1	9
	2	3	7
=	—	—	6

b.	H	T	O
		1	
+	7	5	4
	1	9	8
=	—	—	2

③ Add the numbers

	H	T	O
	4	0	6
+	0	8	0
=			

④ Find the error in addition

	H	T	O
	4	0	6
+	3	4	6
=	7	6	1

⑤ Fill in the missing numbers by selecting the numbers from the cloud.



a.	H	T	O
	1	7	3
+	2	0	8
=			

b.	H	T	O
	2	7	8
+	6	0	9
=			

c.	H	T	O
	3	2	6
+	3	2	6
=			

⑥ There were 454 orange balloons and 545 green balloons ordered for a function. How many balloons were there in all?

	H	T	O
No. of orange balloons =			
No. of green balloons =	+		
Total no. of balloons =			



Qazi scored a total of 454 in his half-yearly exams and 443 in his final exams. Did he score more or did he score less than 900?

Can you also tell this without calculating?