



Number Sense Concepts - NCERT Chapter 2: Fun with Numbers

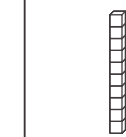
Students will compose and decompose numbers into hundreds, tens and ones (concrete, pictorial, numerical)

40- 50 min

PRE REQUISITES:

G2.13 Know how to compose and decompose 2-digit numbers into 10s & 1s (concrete, pictorial)

TLM



Cubes



MISCONCEPTIONS

Students don't realize importance of 0 as a place holder. They might think that 402 is decomposed as 40 and 2

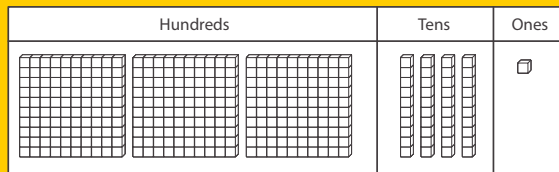


KEY VOCABULARY

"Composing", "Decomposing"
"Hundred"



PLAY



Compose 3-digit no.s using hundreds, tens, & ones concretely

○ Divide the students in groups of 4. Ask each student to divide a sheet or paper into 10 rows & 10 columns

○ Tell students that the paper represents Hundreds. Ask the students to tear off any one such paper row-wise

○ They should get 10 rows of equal sizes. Explain that each row represents Tens

○ Ask to tear off any one such row into 10 small squares. Tell that each small square represents Ones

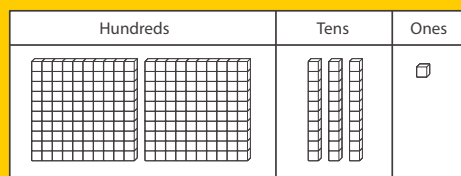
○ Ask students to use these pieces of papers to show three Hundreds, 4 Tens, & 1 Ones

○ Call out other combinations (eg. 4 Hundreds, 5 Tens, & 3 Ones or 1 Hundred, 6 Tens, & 4 Ones)

○ Ask the students to represent them using the pieces of papers



PROCESS



200

30

1

231

Composing & decomposing no.s numerically

○ Show cube & tell that 1 unit represents ones, 10 units make 1 rod & 1 mat represents 100

○ Tell that 231 can be formed using 2 mats of hundred cubes, 3 rods of Tens cubes, & 1 loose cube. Arrange cubes accordingly

○ Point to the mats & say "two hundred-". Point to the rods & continue "thirty-" & then point to the ones cube & say "one"

○ Draw a place value table on the blackboard & decompose 231 as 2 Hundreds, 3 Tens & 1 Ones

○ Tell that all 3- digits no.s can be decomposed into 100s, 10s, & 1s & we can compose a no. by looking at 100s, 10s, 1s

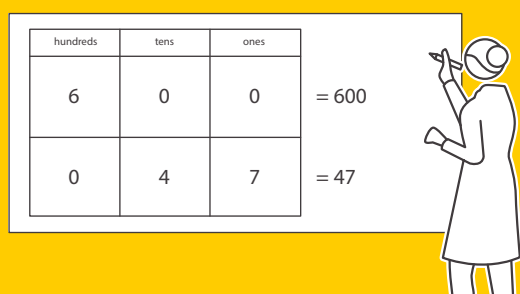
○ Show & explain. 3 mats of 100 represent 300, 1 mat of 10 represents 10, & 4 loose cubes represent 4

○ Write 3, 1, & 4 in the appropriate columns in the place value table. Explain that these no.s together make 314

QUESTION: Show 1 hundred 6 tens & 4 ones as one no. How many sets of Hundreds, Tens & units are there?



PRACTICE



Write the question on the blackboard & ask the students to solve it

○ Help the students solve question 3 from the worksheet. Ask the students to decompose 402 into Hundreds, Tens, & Ones

○ Emphasize that 402 can be decomposed into 4 hundreds, 0 Tens & 2 Ones. Explain that the 0 in 402 tells us that there are no Tens in the no..

○ Help the students solve question 3 from the worksheet. Ask the student to compose the no.s by looking at the table

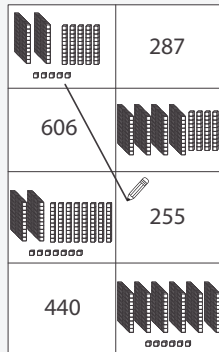
○ Explain that 2-digit no.s do not have any Hundreds



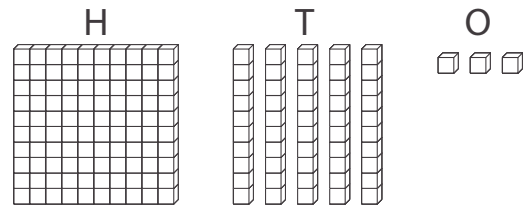
G3.09 | COMPOSES & DECOMPOSES 3-DIGIT NUMBERS

WORKSHEET: NUMBER SENSE CONCEPTS - NCERT CHAPTER 2: FUN WITH NUMBERS

- ① SOLVED EXAMPLE : Match the numbers with their correct representations. Mats represent 100, rods represent 10, & loose cubes represent Ones



- ② Count how many hundreds, Tens & Ones are shown in the picture



- ③ Decompose 402 into hundreds, tens, & ones

How many Hundreds ?	How many Tens ?	How many Ones ?

- ④ Make the number.

Hundreds	Tens	Ones	Number
3	4	7	
6	0	0	
0	4	7	

- ⑤ How many tens are there in these numbers.

a. 234

b. 430

- ⑥ How many hundreds are there in these numbers

a. 232

b. 45



Nasir has 3 boxes of 100 candles each, 2 boxes of 10 candles each & 7 loose candles. How many candles does he have in all?

