Grade 2  
Unit 9Lesson 6CC BY NC 2024 Illustrative Mathematics®

Unit 9, Lesson 6

# Represent Numbers with Expressions

* Let’s compose and decompose numbers to make expressions with the same value.

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## Warm-up True or False: Place Value

Decide if each statement is true or false. Be prepared to explain your reasoning.

* 5 hundreds + 2 tens + 7 ones = 527
* 4 hundreds + 12 tens + 7 ones = 527
* 5 hundreds + 7 ones + 2 tens = 527

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## Activity 1 Make Equations True

Find the number that makes each equation true.

1. 5 hundreds + \_\_\_\_\_ tens + 6 ones = 5 hundreds + 5 tens + 16 ones
2. 1 hundred + 1 ten + 17 ones = 1 hundred + \_\_\_\_\_ tens + 7 ones
3. 4 hundreds + 15 tens + 3 ones = \_\_\_\_\_ hundreds + 5 tens + 3 ones
4. 4 hundreds + 3 tens + 7 ones = 3 hundreds + \_\_\_\_\_ tens + 7 ones
5. 7 hundreds + 8 tens + 4 ones = 7 hundreds + 7 tens + \_\_\_\_\_ ones

* 

1. 6 hundreds + 9 ones = 5 hundreds + \_\_\_\_\_ tens + 9 ones
2. 2 hundreds + 9 tens + 17 ones = \_\_\_\_\_ hundreds + 7 ones
3. 3 hundreds + 1 ten + 5 ones = 2 hundreds + 10 tens + \_\_\_\_\_ ones

If You Have Time: Make your own equation with a missing value for your partner.

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## Activity 2Card Sort: Expressions with 3-Digit Values

Your teacher will give you a set of cards. Group them into sets of expressions that have the same value.

Record the letters of the matching cards. Write a new expression that represents the same value.

1. letters for matching expressions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* new expression:

1. letters for matching expressions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* new expression:

1. letters for matching expressions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* new expression:

1. letters for matching expressions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* new expression: