

Lesson 10: Subtraction Algorithms (Part 3)

Standards Alignments

Addressing 3.NBT.A.2

Teacher-facing Learning Goals

- Relate subtraction algorithms to one another using place value understanding.
- Subtract numbers within 1,000 using another algorithm based on place value.

Student-facing Learning Goals

- Let's learn another algorithm to subtract.

Lesson Purpose

The purpose of this lesson is for students to use a subtraction algorithm that records a single digit for the difference between the numbers in each place value position and a condensed notation for a decomposed hundred or ten.

In this lesson, students continue to learn how to use algorithms to subtract within 1,000. The new algorithm in this lesson draws attention to how place value can be used to record less digits in each place value position. This condensed notation also changes the steps of the algorithm because students don't write the numbers in expanded form to start or add up the partial differences at the end.

Access for:

Students with Disabilities

- Representation (Activity 2)

English Learners

- MLR8 (Activity 2)

Instructional Routines

Notice and Wonder (Warm-up)

Materials to Gather

- Base-ten blocks: Warm-up

Lesson Timeline

Warm-up	10 min
Activity 1	20 min
Activity 2	15 min
Lesson Synthesis	10 min
Cool-down	5 min

Teacher Reflection Question

Who got to do math today in class and how do you know? Identify the norms or routines that allowed these students to engage in mathematics. How can you adjust these norms and routines so all students do math tomorrow?

Cool-down (to be completed at the end of the lesson)

 5 min

Choose the Method

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Student-facing Task Statement

Use an algorithm of your choice to find the value of $419 - 267$.

Student Responses

152. Students can use either of the subtraction algorithms learned so far.