

Lesson 20: Add and Subtract Within 1,000,000

Standards Alignments

Addressing 4.NBT.B.4

Teacher-facing Learning Goals

- Add and subtract multi-digit numbers, with multiple compositions or decompositions, using the standard algorithm.

Student-facing Learning Goals

Let's use the standard algorithm to add and subtract.

Lesson Purpose

The purpose of this lesson is for students to add and subtract within 1,000,000 with multiple compositions or decompositions.

In this lesson, students use the standard algorithm for addition and subtraction to the hundred-thousands place. They build their fluency with the algorithm as they encounter examples where more than one digit has to be decomposed in order to subtract. Students also look at errors that are commonly made when using the algorithm to find sums and differences.

Access for:

Students with Disabilities

- Action and Expression (Activity 1)

English Learners

- MLR8 (Activity 2)

Instructional Routines

Notice and Wonder (Warm-up)

Materials to Gather

- Grid paper: Activity 1, Activity 2

Lesson Timeline

Warm-up	10 min
Activity 1	15 min
Activity 2	20 min

Teacher Reflection Question

What connections did students make between the decomposition of base-ten units using expanded form and using the standard algorithm when subtracting large numbers?

Lesson Synthesis

10 min

Cool-down

5 min

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

 5 min

Subtract

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Student-facing Task Statement

Use the standard algorithm to find the value of the difference.

$$\begin{array}{r}
 173,225 \\
 - 114,329 \\
 \hline
 \end{array}$$

Student Responses

58,896

$$\begin{array}{r}
 121111 \\
 621115 \\
 173225 \\
 - 114329 \\
 \hline
 58,896
 \end{array}$$