

Lesson 18: Standard Algorithm to Add and Subtract

Standards Alignments

Addressing 4.NBT.B.4

Teacher-facing Learning Goals

- Add multi-digit numbers, with composing, using the standard algorithm.
- Subtract multi-digit numbers, without decomposing, using the standard algorithm.

Student-facing Learning Goals

- Let's find sums and differences of large numbers.

Lesson Purpose

The purpose of this lesson is to add and subtract large numbers within 100,000 using the standard algorithm.

In grade 3, students found sums and differences within 1,000. Students analyzed and used different algorithms based on place value, including the standard algorithm. As students work with larger numbers in grade 4, they recognize that the standard algorithm is a reliable and efficient way to add and subtract within 1,000,000.

Grid paper should be made available but not required, as a tool to support aligning digits when adding and subtracting in each activity.

Access for:

Students with Disabilities

- Representation (Activity 1)

English Learners

- MLR2 (Activity 1)

Instructional Routines

Estimation Exploration (Warm-up)

Materials to Gather

- Grid paper: Activity 1, Activity 2

