Lesson 16: Tenths and Hundredths, Together

Standards Alignments

Building On	4.NF.A.1, 4.NF.A.2
Addressing	4.NF.A.1, 4.NF.C.5
Building Towards	4.NF.C.5

Teacher-facing Learning Goals

- Use equivalent fractions to add tenths and hundredths, up to a sum of 1.

Student-facing Learning Goals

- Let's add some tenths and hundredths.

Lesson Purpose

The purpose of this lesson is for students to write equivalent fractions to add tenths and hundredths, up to a sum of 1.

Prior to this lesson, students refreshed their understanding of equivalence. They used it to reason about sums and differences of fractions whose denominators are different but are factors or multiples of one another (2, 4, and 8, and 2, 3, and 6). This lesson extends that work to include fractions with denominators of 10 and 100. Students revisit how to write equivalent fractions in tenths and hundredths, and then use that understanding to add tenths and hundredths, up to a sum of 1.

Access for:

Students with Disabilities

- Representation (Activity 1)

English Learners

- MLR1 (Activity 2)

Instructional Routines

Notice and Wonder (Warm-up)

Lesson Timeline

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

Teacher Reflection Question

Reflect on a time recently when your thinking about students' understanding or reasoning changed. What led to the change in perspective? How will you alter your teaching practice to incorporate your new understanding?

Cool-down	5 min

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

5 min

Some Sums

Standards Alignments

Addressing 4.NF.C.5

Student-facing Task Statement

Find the value of each sum. Show your reasoning. Use number lines if you find them helpful.

1. $\frac{1}{10} + \frac{50}{100}$
2. $\frac{20}{100} + \frac{4}{10}$
3. $\frac{6}{10} + \frac{3}{100}$
4. $\frac{18}{100} + \frac{7}{10}$

Student Responses

1. $\frac{6}{10}$ or $\frac{60}{100}$
2. $\frac{6}{10}$ or $\frac{60}{100}$
3. $\frac{63}{100}$
4. $\frac{88}{100}$