Lesson 12: Add it Up

Standards Alignments

Addressing 1.NBT.C.4

Teacher-facing Learning Goals

- Add 2 two-digit numbers using methods based on place value and properties of operations.
- Write equations to represent addition methods.

Student-facing Learning Goals

- Let's add two-digit numbers and write equations.

Lesson Purpose

The purpose of this lesson is for students to add 2 two-digit numbers, with composing a ten, using methods based on place value and properties of operations. Students write equations to represent addition methods.

In this lesson, students practice explaining their methods for adding two-digit numbers based on place value and the properties of operations (MP3). In the first activity, students are invited to choose any method that makes sense to them to add within 100 and explain their method to their peers. In the second activity, students use what they have learned about place value and methods for adding to create expressions that meet different constraints. Throughout the lesson, monitor for ways students are reasoning about place value and the structure of numbers (MP7).

Activity 3 is an optional activity that offers practice adding within 100 in real-world contexts.

This lesson has a Student Section Summary.

Access for:

⬤ Students with Disabilities

- Representation (Activity 2)

🌐 English Learners

- MLR8 (Activity 2)

Instructional Routines

MLR8 Discussion Supports (Activity 1), Number Talk (Warm-up)

Materials to Gather

- Connecting cubes in towers of 10 and singles: Activity 1, Activity 2, Activity 3

Lesson Timeline

Warm-up	10 min
Activity 1	15 min
Activity 2	20 min
Activity 3	20 min
Lesson Synthesis	10 min
Cool-down	5 min

Teacher Reflection Question

As you finish up this unit, reflect on the norms and activities that have supported each student in learning math. How have you seen each student grow as a young mathematician throughout this work? How have you seen yourself grow as a teacher? What will you continue to do and what will you improve on in Unit 6?

Cool-down (to be completed at the end of the lesson)   🕐   5 min

Add Within 100

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Addressing   1.NBT.C.4

Student-facing Task Statement

Find the value of each sum.

1. $37 + 44$

   Write equations to represent your thinking.

2. $58 + 37$

   Write equations to represent your thinking.

Student Responses

1. 81. Sample response: $30 + 40 = 70, 7 + 4 = 11, 70 + 11 = 81$
2. 95. Sample response: $58 + 30 = 88, 88 + 2 + 5 = 95$