Lesson 18: Algoritmo estándar para sumar y restar

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

• Encontremos sumas y diferencias de números grandes.

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)

S English Learners

• MLR2 (Activity 1)

Instructional Routines

Estimation Exploration (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
Lesson Synthesis	10 min
Cool-down	5 min

Teacher Reflection Question

What strategies from earlier grades did students rely on to find sums and differences in the warm-up and first activity, before the standard algorithm was explicitly mentioned? How can you support students in connecting these strategies to the standard algorithm?

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

Los pasos de Andre

Standards Alignments

Addressing 4.NBT.B.4

Student-facing Task Statement

Andre empezó a monitorear sus pasos. Él dio 14,687 pasos el lunes y 10,512 pasos el martes.

- 1. ¿Cuántos pasos dio en total durante esos dos días? Muestra cómo razonaste.
- 2. ¿Cuántos pasos más dio el lunes que el martes?

Student Responses

1. 25,199 steps. Sample		1				
response:		1	4,	6	8	7
	+	1	0,	5	1	2
		2	5,	1	9	9
2. 4,175 steps. Sample response:		1	4,	6	8	7
	_	1	0,			
			4,	1	7	5

🕚 5 min