

# Lesson 17: Usemos las cuatro operaciones para resolver problemas

## Standards Alignments

Addressing 3.NBT.A.3, 3.OA.B.5, 3.OA.D.8

### Teacher-facing Learning Goals

- Represent two-step word problems using equations with a letter standing for the unknown quantity.
- Solve two-step word problems using the four operations.

### Student-facing Learning Goals

- Usemos las cuatro operaciones para resolver problemas.

## Lesson Purpose

The purpose of this lesson is for students to solve two-step problems using all four operations.

Previously, students have solved two-step problems involving addition, subtraction, and multiplication. Here they consider what mathematical questions could be asked about a situation and then solve two-step problems that include division where the factors are limited to single-digit numbers. Parentheses are revisited as a tool students can use to specify which operation happens first in the equation so that it matches the situation they are representing.

This lesson has a Student Section Summary.

### Access for:

#### Students with Disabilities

- Engagement (Activity 2)

#### English Learners

- MLR5 (Activity 2)

## Instructional Routines

True or False (Warm-up)

### Materials to Gather

- Base-ten blocks: Activity 2

### Materials to Copy

- Centimeter Grid Paper - Standard (groups of 2): 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

How has your students' understanding of two-step word problems evolved from previous lessons? How have their experiences with multiplication and division in this unit influenced their problem solving strategies?

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

 5 min

Los globos de Andre

### Standards Alignments

Addressing 3.OA.D.8

### Student-facing Task Statement

Andre tenía 125 globos. Él y 4 amigos colgaron algunos de esos globos para una fiesta en la escuela y ahora quedan 80 globos. Si cada persona colgó el mismo número de globos, ¿cuántos globos colgó cada uno?

1. Escribe una ecuación que corresponda a la situación y que tenga una letra para representar la cantidad desconocida.
2. Resuelve el problema. Explica o muestra cómo razonaste.

### Student Responses

1.  $(125 - 80) \div 5 = b$
2. 9 balloons. Sample response: I subtracted  $125 - 80$  to see how many balloons Andre and his friends hung up and got 45. Then, I divided 45 by 5 to see how many balloons each person hung up and got 9.