

Lesson 14: Escribamos y resolvamos ecuaciones con números desconocidos

Standards Alignments

Addressing 3.OA.A.1, 3.OA.A.3, 3.OA.A.4, 3.OA.D.9

Building Towards 3.OA.C.7

Teacher-facing Learning Goals

- Relate equations to multiplication situations and diagrams using a symbol for the unknown number.
- Write equations for multiplication situations and diagrams using a symbol for the unknown number.

Student-facing Learning Goals

- Trabajemos con ecuaciones que tienen números desconocidos.

Lesson Purpose

The purpose of this lesson is for students to relate equations to and write equations for multiplication situations and diagrams using a symbol for the unknown number.

Students have worked with addition and subtraction equations with a symbol to represent the unknown number in grades 1 and 2. Students build on that work and the work with multiplication equations in the previous lesson as they encounter multiplication equations that have a symbol for the unknown number for the first time.

Access for:

Students with Disabilities

- Representation (Activity 2)

English Learners

- MLR8 (Activity 1)

Instructional Routines

Card Sort (Activity 1), Number Talk (Warm-up)

Materials to Copy

- Card Sort Unknown Numbers, Spanish

(groups of 2): Activity 1

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 do tape diagrams help students make sense of equations in which the unknown number is in different positions?

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

 5 min

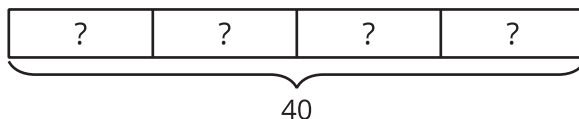
De número desconocido a conocido

Standards Alignments

Addressing 3.OA.A.1, 3.OA.A.4

Student-facing Task Statement

1. Escribe una ecuación que corresponda al diagrama. Usa un símbolo para representar el número desconocido.



2. Encuentra el número que hace que la ecuación sea verdadera. Reescribe la ecuación con ese número. Explica tu razonamiento.

Student Responses

1. $4 \times ? = 40$ or $? \times 4 = 40$
2. $4 \times 10 = 40$ or $10 \times 4 = 40$. Sample response: If I count by ten 4 times I get 40, so I know the missing number is 10.