

# Lesson 5: Minicasa: Costo

## Standards Alignments

Addressing 3.NBT.A.2, 3.OA.D.8

### Teacher-facing Learning Goals

- Solve problems about the cost of finishing a room in a tiny house.

### Student-facing Learning Goals

- Calculemos el costo de terminar una habitación de una minicasa.

## Lesson Purpose

The purpose of this lesson is for students to apply what they've learned about operations to calculate the cost to finish a space in a tiny house.

In a previous lesson, students used what they learned about area and perimeter to design a tiny house. In this lesson, they apply their knowledge of operations to calculate the cost of finishing one of the rooms of their tiny house. Students engage in aspects of mathematical modeling as they make decisions about quantities, relate measurements and costs, and interpret their results in context (MP4).

If students need additional support with the concepts in this lesson, refer back to Unit 3, Section A in the curriculum materials.

### Access for:

#### Students with Disabilities

- Action and Expression (Activity 1)

#### English Learners

- MLR8 (Activity 1)

## Instructional Routines

Estimation Exploration (Warm-up)

### Materials to Gather

- Materials from a previous lesson: Activity 1

### Lesson Timeline

Warm-up	10 min
Activity 1	35 min

### Teacher Reflection Question

What strategy did you anticipate today? Which did you not anticipate?

Lesson Synthesis

10 min

Cool-down

5 min

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

 5 min

Encuentra el costo

### Standards Alignments

Addressing 3.OA.D.8

### Student-facing Task Statement

¿Cuál es el costo total de 18 pies cuadrados de baldosas y la tubería para la cocina? Explica tu razonamiento.

artículo	costo
piso: baldosa madera alfombra	\$5 por cada pie cuadrado \$4 por cada pie cuadrado \$2 por cada pie cuadrado
pintura	\$25 por cada galón (hasta 400 pies cuadrados)
tubería para el baño	\$379
inodoro	\$138
lavabo y grifo para el baño	\$112
tubería para la cocina	\$253
lavaplatos y grifo para la cocina	\$227
armarios	\$90 por cada pie
repisas	\$20 por cada pie
platos, vasos, tenedores, cucharas, etcétera	Los precios pueden variar. Investiga o estima el costo.
lavavajillas	\$389

estufa portátil	\$174
muebles	Los precios pueden variar. Investiga o estima el costo.
combinación de lavadora / secadora compacta	\$225
cama	\$189

### Student Responses

\$343. Sample response: Tile flooring costs \$90, because  $18 \times 5$  is  $10 \times 5 + 8 \times 5$ , which is  $50 + 40$  or 90. Adding 253 and 90 together gives 343.