

Mathematics Workbook — Grade 6

Math Workbook for Middle School — Complete Course Practice

Cuaderno de Matemáticas — 6.º grado

Cuaderno de matemáticas para escuela intermedia — Práctica completa del curso

Middle School Series / Serie de Educación Intermedia

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MKLDesignsShop

How to Use This Workbook

(En español: Cómo usar este cuaderno)

Welcome to the **Mathematics Workbook — Grade 6** by MKLDesignsShop! This workbook is specially designed to align with the Florida B.E.S.T. Standards (MA.6) and the Puerto Rico Department of Education (DEPR) mathematics framework. It provides clear, bilingual support to help standard and dual-language learners master essential middle school mathematics.

(En español: ¡Bienvenido al **Cuaderno de Matemáticas — 6.º Grado** de MKLDesignsShop! Este cuaderno está diseñado especialmente para alinearse con los Estándares B.E.S.T. de Florida (MA.6) y el marco de matemáticas del Departamento de Educación de Puerto Rico (DEPR). Brinda apoyo bilingüe claro para ayudar a los estudiantes regulares y de lenguaje dual a dominar las matemáticas esenciales de la escuela intermedia.)

Here is how your learning journey is structured / Así está estructurado tu camino de aprendizaje:

- **6 Core Units / 6 Unidades principales:** Covering ratios, fraction/decimal operations, rational numbers, expressions, geometry, and statistics.
- **Mini-Lessons with Diagrams / Mini-lecciones con diagramas:** Concise explanations paired with functional visual diagrams to anchor key concepts.
- **2 Worked Examples per Unit / 2 Ejemplos resueltos por unidad:** Step-by-step problem-solving models with explicit final answers.
- **Guided & Independent Practice / Práctica guiada e independiente:** 4 guided questions and 6 independent practice questions per unit to build mastery.
- **Unit Mini-Quizzes / Mini-quizzes por unidad:** 4 multiple-choice items at the end of each unit to evaluate progress.
- **20-Item Final Exam / Examen final de 20 ítems:** A comprehensive assessment covering all course standards (featured in Part 2).
- **30-Word Bilingual Glossary / Glosario bilingüe de 30 palabras:** Key mathematical vocabulary defined in both English and Spanish (featured in Part 2).
- **Complete Answer Key / Clave completa de respuestas:** Full step-by-step solutions for every exercise and quiz item.

Meet your learning companion, **Tingilillo the owl** (Tingilillo el búho)! Tingilillo will guide you through mini-lessons and examples with brief, encouraging notes

to help you think like a mathematician.

Course Map

(En español: Mapa del curso)

Below is the complete outline of units included in this workbook / A continuación se presenta el esquema completo de las unidades incluidas en este cuaderno:

- **Unit 1: Ratios and Unit Rates** / Razones y tasas unitarias
- **Unit 2: Fraction and Decimal Operations** / Operaciones con fracciones y decimales
- **Unit 3: Integers and Rational Numbers** / Enteros y números racionales
- **Unit 4: Expressions and Equations** / Expresiones y ecuaciones
- **Unit 5: Geometry and Measurement** / Geometría y medición
- **Unit 6: Statistics and Data Analysis** / Estadística y análisis de datos

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Starter Mini-Lesson

(En español: Mini-lección de arranque)

Before starting Unit 1, let us practice how to approach math problems step by step.

Tingilillo the owl says: "Hoot! Mathematics is not about memorizing speed; it is about understanding patterns and organizing your steps clearly!"

(En español: Antes de comenzar la Unidad 1, practiquemos cómo abordar los problemas de matemáticas paso a paso. Tingilillo el búho dice: "¡Hoot! Las matemáticas no se tratan de memorizar con rapidez; se tratan de entender patrones y organizar tus pasos con claridad").

To solve any middle school math problem effectively:

1. **Read carefully:** Identify what information is given and what question is being asked.

2. **Choose a strategy:** Draw a model, write an equation, or set up a table.

3. **Execute and check:** Perform the operations neatly and ask yourself if your answer makes sense.

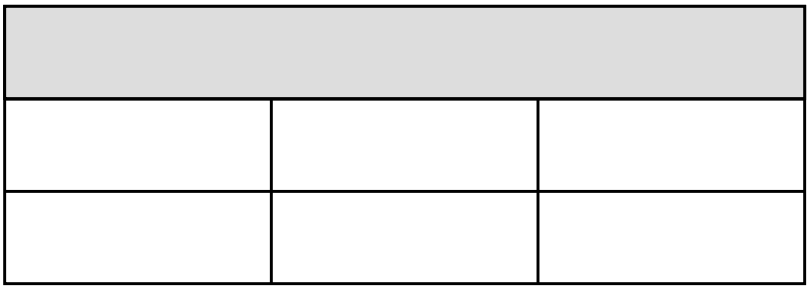
Starter activity:

Read the following situation: A student reads 12 pages of a book in 4 minutes. How many pages does the student read per minute? Write down the two numbers given in the problem and state which operation you should use to find the pages per minute.

UNIT 1: Ratios and Unit Rates

(En español: Unidad 1: Razones y tasas unitarias)

Mini-Lesson



Tingilillo the owl says: "Remember! A ratio compares two quantities, while a unit rate tells us how much of one quantity corresponds to single unit of another!"

1. What a Ratio Is

A ratio is a mathematical comparison of two quantities. Ratios can be written in three different ways: using the word "to" (3 to 4), using a colon (3:4), or as a fraction (3/4). For example, if a basket contains 3 red apples and 4 green apples, the ratio of red apples to green apples is 3:4.

2. Equivalent Ratios and Ratio Tables

Equivalent ratios are ratios that express the same relationship between numbers. You can find equivalent ratios by multiplying or dividing both terms of a ratio by the same non-zero number. A ratio table organizes pairs of equivalent values. If the ratio of apples to dollars is 3:2, multiplying both terms by 2 gives 6:4, and multiplying by 3 gives 9:6.

3. Unit Rates

A unit rate is a rate in which the second quantity in the comparison is equal to 1 unit. Common examples include price per item (e.g., $2.00 per bottle) or speed (e.g., 50 miles per hour). To find a unit rate, divide the first quantity by the second quantity.

Worked Examples

Example 1