Spring Mathematics Workbook — Grade 5

Spring Mathematics — Second Semester — Complete Course Practice

Cuaderno de Matemáticas de Primavera — 5.º grado

Primavera — Segundo Semestre — Práctica completa del curso

Elementary Series / Serie de Primaria

Elementary Courses for Florida & Puerto Rico / Cursos de primaria de Florida y Puerto Rico

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How to Use This Workbook

(En español: Cómo usar este cuaderno)

Welcome to the **Spring Mathematics Workbook — Grade 5 · Spring / Primavera — Second Semester**! This workbook is specially designed for fifth-grade students in Florida and Puerto Rico, combining rigorous mathematics standards with engaging local contexts such as heron lagoons, aquariums, gardens, and local markets.

Guided by **Gilda the Heron** (Gilda la garza), who offers helpful advice and warm encouragement throughout each lesson, students will review foundational skills from the fall semester while tackling exciting new second-semester topics.

What is included in this workbook? / ¿Qué incluye este cuaderno?

- **6 Core Units:** Comprehensive coverage of 5th-grade spring mathematics standards.
- **Starter Mini-Lesson & Review:** A spring activation lesson bridging fall review and second-semester learning.
- **Mini-Lessons with Visual Diagrams:** Clear, step-by-step explanations paired with functional visual diagrams (tables, number lines, grids, charts, and flow charts).
- **2 Worked Examples Per Unit:** Fully solved step-by-step model problems with explicit answer declarations.
- **Guided Practice (4 items per unit):** Scaffolded open-response questions to build confidence.
- **Independent Practice (6 items per unit):** Open-response exercises for mastery and fluency.
- **Unit Mini-Quizzes (4 items per unit):** Multiple-choice assessments designed to check conceptual understanding.
- **20-Question Final Comprehensive Exam:** A cumulative test covering all spring learning targets (found in Part 2).
- **30-Term Bilingual Glossary:** Essential mathematical vocabulary defined in English and Spanish (found in Part 2).
- **Complete Answer Key:** Fully explained answers for all examples, practice items, and quizzes.

Course Map

(En español: Mapa del curso)

- **UNIT 1: Decimals: Place Value and Operations** / (Unidad 1: Decimales: valor posicional y operaciones)
- **UNIT 2: Fractions: Unlike Denominators and Multiplication** / (Unidad 2: Fracciones: denominadores distintos y multiplicación)
- **UNIT 3: Volume** / (Unidad 3: Volumen)
- **UNIT 4: Measurement and Line Plots with Fractions** / (Unidad 4: Medición y gráficas de línea con fracciones)
- **UNIT 5: Coordinate Plane and Patterns** / (Unidad 5: Plano de coordenadas y patrones)
- **UNIT 6: Expressions and Multi-Step Problems** / (Unidad 6: Expresiones y problemas de varios pasos)

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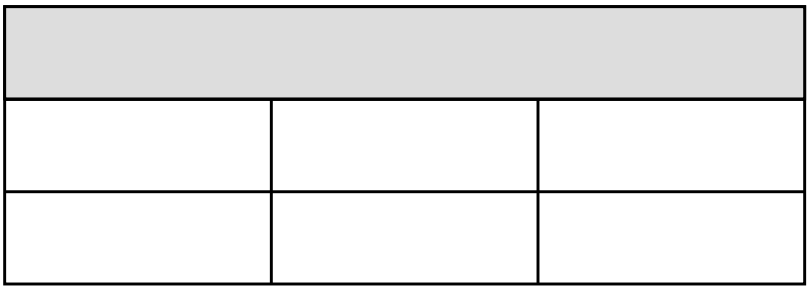
Starter Mini-Lesson

(En español: Mini-lección de arranque)



Welcome back to math class! In the first semester, you mastered whole number operations and basic fraction concepts. This second semester (Spring / Primavera), we build upon that strong foundation. You will learn to work with decimals up to thousandths, perform operations with fractions having different denominators, measure three-dimensional volume, plot points on coordinate grids, and solve multi-step expressions.

Gilda says: "Hello, young mathematicians! I am Gilda the Heron. Together, we will explore math across the beautiful lagoons of Florida and vibrant markets of Puerto Rico. Let us make this spring a season of great learning!"

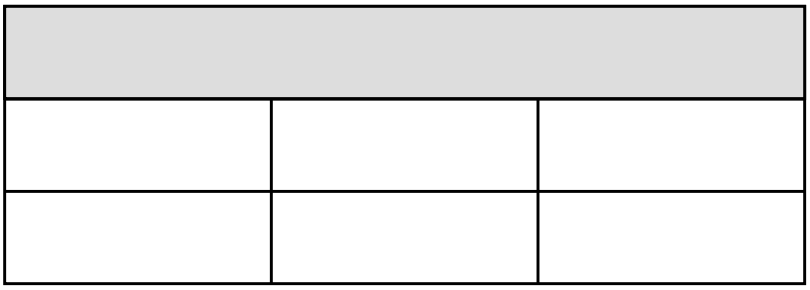
Starter activity:

Look at the two water sample measurements collected by Gilda at the lagoon: **12.45 liters** and **12.405 liters**. Compare the two numbers using <, >, or =, and explain which sample contains more water based on place value.

UNIT 1: Decimals: Place Value and Operations

(En español: Unidad 1: Decimales: valor posicional y operaciones)

Mini-Lesson



1. Place Value to Thousandths

In 5th grade mathematics, numbers extend past tenths and hundredths to the **thousandths** place (three places to the right of the decimal point).

- 1 tenth = 0.1 = 1/10
- 1 hundredth = 0.01 = 1/100
- 1 thousandth = 0.001 = 1/1000

For example, at the San Juan Market, passion fruit is priced at **3.425 dollars** per kilogram. The digit 4 is in the tenths place (0.4), the digit 2 is in the hundredths place (0.02), and the digit 5 is in the thousandths place (0.005). At the Florida Heron Sanctuary, a water sample measures **1.258 liters**, where 8 represents 8 thousandths (0.008).

2. Rounding Decimals

To round a decimal to a given place value:

1. Locate the target rounding place.

2. Look at the digit immediately to its right.

3. If the digit is 5 or greater, round up (increase the target digit by 1). If it is 4 or less, round down (keep the target digit the same).

Example context: Daily rainfall at the sanctuary was recorded as **4.816 inches**. Rounded to the nearest tenth, it is **4.8 inches** (since $1 < 5$). Rounded to the nearest hundredth, it is **4.82 inches** (since $6 \geq 5$).

3. Adding and Subtracting Decimals