Mathematics Workbook — Grade 7

Math Workbook for Middle School — Complete Course Practice

Cuaderno de Matemáticas — 7.º grado

Cuaderno de matemáticas para escuela intermedia — Práctica completa del curso

Middle School Series / Serie de Educación Intermedia

Middle School Courses for Florida & Puerto Rico / Cursos de escuela intermedia de Florida y Puerto Rico

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MKLDesignsShop

How to Use This Workbook

(En español: Cómo usar este cuaderno)

Welcome to the **MKLDesignsShop Mathematics Workbook — Grade 7**! This comprehensive learning tool is designed to support middle school students following Florida B.E.S.T. Standards (MA.7) and Puerto Rico DEPR Mathematics standards. Whether you are learning in English or looking for Spanish language support, this workbook provides clear explanations, guided practice, and rigorous assessment.

What is Inside This Workbook / ¿Qué incluye este cuaderno?

- **6 Core Units:** Comprehensive coverage of 7th-grade standards, from proportional reasoning to financial literacy.
- **Mini-Lessons with Functional Diagrams:** Direct instruction supported by visual charts and concept maps to help you visualize mathematical relationships.
- **2 Worked Examples per Unit:** Step-by-step problem-solving models with clear closures.
- **Guided Practice (4 items):** Scaffolded problems to practice new concepts with supportive structures.
- **Independent Practice (6 items):** Rigorous open-ended practice to build complete mastery.
- **Unit Mini-Quizzes (4 items per unit):** Multiple-choice checkpoints to assess understanding.
- **Comprehensive 20-Item Final Exam:** End-of-course cumulative assessment (located in Part 2).
- **30-Term Bilingual Glossary:** Essential vocabulary defined in English and Spanish.
- **Complete Answer Key:** Fully worked step-by-step solutions for every problem and question.

Meet Your Guide / Conoce a tu guía

Throughout this workbook, **El Patico the duck** (El Patico el pato) will offer friendly tips, reminders, and encouraging notes to keep you motivated on your mathematical journey!

Course Map

(En español: Mapa del curso)

Below is the complete outline of units included in this Grade 7 Mathematics Workbook:

- **Unit 1: Proportional Relationships** / (Unidad 1: Relaciones proporcionales)
- Unit rates with fractions, constant of proportionality (k), proportional graphs through the origin, and analyzing table relationships.
- **Unit 2: Operations with Rational Numbers** / (Unidad 2: Operaciones con números racionales)
- Adding, subtracting, multiplying, and dividing integers and rational numbers; real-world absolute value; fraction-to-decimal conversions.
- **Unit 3: Expressions, Equations and Inequalities** / (Unidad 3: Expresiones, ecuaciones y desigualdades)
- Combining like terms, distributive property, solving two-step equations, solving and graphing simple inequalities (flipping inequality signs).
- **Unit 4: Percents in Real Life** / (Unidad 4: Porcentajes en la vida real)
- Percent of a number, discounts, sales tax and tip with declared prices, percent increase and decrease, and simple interest in general terms.
- **Unit 5: Geometry: Angles, Circles and Volume** / (Unidad 5: Geometría: ángulos, círculos y volumen)
- Complementary and supplementary angles, circumference and area of circles (using 3.14), area of composite figures, and volume of prisms.
- **Unit 6: Probability and Statistics** / (Unidad 6: Probabilidad y estadística)
- Probability as a number from 0 to 1, simple events and sample spaces, making predictions, random samples, and comparing two data sets with mean and median.

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Starter Mini-Lesson

(En español: Mini-lección de arranque)

Welcome to 7th Grade Mathematics! In middle school math, success comes from breaking complex problems into smaller, logical steps. When solving any math problem:

1. **Read carefully:** Identify what information is given and what question needs to be answered.

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

3. **Show your work:** Write down each operational step clearly.

4. **Check for reasonableness:** Ask yourself, "Does this answer make sense in the context of the problem?"

El Patico says: "Quack! Don't rush through problems! Taking one clear step at a time makes mathematics easy and fun!"

Starter activity:

Read the following situation and explain in your own words the step you would take first: A student has 15 to buy notebooks that cost 3 each. How many notebooks can the student buy? Write down your reasoning.