

Singapore Math 5

Class Description: Singapore math says that Primary Mathematics U.S. Edition "is a series of rigorous elementary math textbooks and workbooks meant to be part of a system of learning in which adult supervision and independent practice go hand in hand. The main feature of this series is the use of the Concrete> Pictorial>Abstract approach. Students are provided with the necessary learning experiences beginning with the concrete and pictorial stages, followed by the abstract stage to enable them to learn mathematics meaningfully. This approach encourages active thinking process, communication of mathematical ideas and problem solving. Singapore Math develops the foundation students will need for more advanced mathematics."

In grade 5, the student will focus on multiplication, division, fractions, decimals, percents, geometric concepts, and more.

Learning Materials: Main Curriculum:

Primary Math Answer Key Booklet U.S. Ed 4A-6B

Primary Math HOME Instructor's Guide U.S. Ed 5A

Primary Math HOME Instructor's Guide U.S. Ed 5B

Primary Math Textbook 5A U.S. EDITION

Primary Math Textbook 5B U.S. EDITION

Primary Math Workbook 5A U.S. EDITION

Primary Math Workbook 5B U.S. EDITION

Learning Goals/Performance Objectives: 5.1.A Represent multi-digit division using place value models and connect the representation to the related equation.

5.1.C Fluently and accurately divide up to a four-digit number by one- or two-digit divisors using the standard long-division algorithm.

5.2.A Represent addition and subtraction of fractions and mixed numbers using visual and numerical models, and connect the representation to the related equation.

5.2.B Represent addition and subtraction of decimals using place value models and connect the representation to the related equation.

5.3.A Classify quadrilaterals.

5.3.F Determine the perimeters and areas of triangles and parallelograms.

Learning Activities: The student will work through 1-2 units per month. Each unit is comprised of 2-7 lessons. Students complete the workbook exercises. The textbook has the content and then practice and review problems that may be done after the corresponding workbook problems.

There are reviews (assessments) throughout the curriculum.

Primary Mathematics U.S. Edition 5A Contents

1. Whole Numbers

•Place Values

•Millions

- Approximation and Estimation
- Multiplying by Tens, Hundreds or Thousands
- Dividing by Tens, Hundreds or Thousands
- Order of Operations
- Word Problems

2. Multiplication and Division by a 2-digit Whole Number

- Multiplication
- Division

3. Fractions

- Fraction and Division
- Addition and Subtraction of Unlike Fractions
- Addition and Subtraction of Mixed Numbers
- Product of a Fraction and a Whole Number
- Product of Fractions
- Dividing a Fraction by a Whole Number
- Word Problems

REVIEW A

4. Area of Triangle

- Finding the Area of a Triangle

5. Ratio

- Finding Ratio
- Equivalent Ratios
- Comparing Three Quantities

6. Angles

- Measuring Angles
- Finding Unknown Angles

REVIEW B

REVIEW C (extra review exercises on customary measurements)

Primary Mathematics U.S. Edition 5B Contents

1. Decimals

- Approximation and Estimation
- Multiplication by Tens, Hundreds or Thousands
- Division by Tens, Hundreds or Thousands
- Multiplying by a 2-digit Whole Number
- Conversion of Measurements

REVIEW A

2. Percentage

- Percent
- Writing Fractions as Percentage
- Percentage of a Quantity

3. Average

- Average

4. Rate

- Rate

5. Graphs

- Line Graphs

REVIEW B

6. Triangles

- Sum of Angles of a Triangle
- Isosceles and Equilateral Triangles
- Drawing Triangles

7. 4-sided Figures

- Parallelogram, Rhombuses and Trapezoids
- Drawing Parallelograms and Rhombuses

8. Tessellations

- Tiling Patterns

9. Volume

- Cubes and Cuboids
- Finding the Volume of a Solid

REVIEW C

REVIEW D

REVIEW E (extra review exercises on customary measurements)

Progress Criteria/Methods of Evaluation: For successful completion of this course, the student will complete at least 70% of the lessons/goals, at a minimum of 70% accuracy.

September Book 5A Unit 1

October Unit 2-3

November Unit 4-5

December Unit 6 Book 5B Unit 1

January Unit 2

February Unit 3-4

March Unit 5-6

April Unit 7-8

May Unit 9

June Review