

COURSE OVERVIEW

Math 400 is a full-year elementary math course focusing on number skills and numerical literacy. In it, students will gain solid experience with number theory and operations, including decimals and fractions. This course also integrates geometric concepts and skills throughout the units, teaches measurement skills, and introduces students to statistical concepts.

By the end of the course, students will be expected to do the following:

- Perform all four operations on whole numbers.
- Compare and order numbers, using place value and rounding.
- Add and subtract fractions and decimals.
- Understand measurement concepts, including the metric system.
- Calculate perimeters and areas of regular plane shapes.
- Represent data on varied statistical charts.

UNIT 1: NUMBER SENSE AND PLACE VALUE	
Assignment Titles	
MATHEMATICS 400	1. Course Overview
	2. Place Value to 1,000s
	3. Single-Digit Addition
	4. Single-Digit Subtraction
	5. Multi-Digit Addition
	6. Multi-Digit Subtraction
	7. Review Place Value to 1,000s
	8. Quiz 1
	9. Multiplication Facts
	10. Family of Facts
	11. Telling Time
	12. Quiz 2
	13. Number Words
	14. Patterns
	15. Cardinal and Ordinal Numbers
	16. Quiz 3
	17. Reading and Writing Fractions
	18. Practice Multiplication
	19. Counting Money
	20. Operations
	21. Quiz 4
	22. Review: Numbers
	23. Story Problems
	24. Quiz 5
	25. Special Project
	26. Review Game
	27. Test
	28. Alternate Test*
	29. Reference
	30.

UNIT 2: ROUNDING AND ESTIMATION	
Assignment Titles	
MATHEMATICS 400	1. Operations
	2. Multiplication Facts: 6-10 and Review
	3. Using Standard Measures
	4. Quiz 1
	5. Place Value to 10,000s
	6. Relation Symbols
	7. Missing Number Equations
	8. Review: Even and Odd Numbers
	9. Quiz 2
	10. Adding and Subtracting Fractions
	11. Rounding Numbers to 10s
	12. Estimating Answers to 10s
	13. Review: Math Symbols
	14. Quiz 3
	15. Equivalent Fractions
	16. Rounding Numbers to 100s
	17. Estimating Answers to 100s
	18. Review: Computation
	19. Quiz 4
	20. Review: Bar Graphs and Fractions
	21. Review: Fractions
	22. Quiz 5
	23. Special Project*
	24. Review Game
	25. Test
	26. Alternate Test*
	27. Reference

UNIT 3: WHOLE NUMBERS AND FRACTIONS

MATHEMATICS
400

Assignment Titles

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|--|--|
| 1. Place Value | 15. Quiz 3 |
| 2. Rounding Numbers to 10s, 100s, and 1,000s | 16. Equivalent Fractions |
| 3. Multiply with Carrying to 10s | 17. Learn Numbers to 100,000s |
| 4. Multiplication Practice | 18. Equations |
| 5. Quiz 1 | 19. Quiz 4 |
| 6. Multi-Digit Addition and Subtraction | 20. Reading and Solving Story Problems |
| 7. Rounding and Estimating | 21. Line Graphs |
| 8. Fractions Equal to Whole Numbers | 22. Quiz 5 |
| 9. Quiz 2 | 23. Special Project* |
| 10. Estimate Answers to 1,000s | 24. Review Game |
| 11. Relation Symbols | 25. Test |
| 12. Fractions | 26. Alternate Test* |
| 13. Add and Subtract to 10,000s | 27. Reference |
| 14. Check Your Answers | |

UNIT 4: LINES AND SHAPES

MATHEMATICS
400

Assignment Titles

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|--|--|
| 1. Plane and Solid Shapes | 12. Missing Number Problems |
| 2. Quiz 1 | 13. Review: Operation and Relation Symbols |
| 3. Practice Addition and Subtraction | 14. Quiz 4 |
| 4. Place Value and Rounding | 15. Review: Expanded Notation and Estimation |
| 5. Multiply with Carrying to 100s | 16. Review: Fractions and Place Value |
| 6. Quiz 2 | 17. Quiz 5 |
| 7. Lines, Segments, End Points, Rays, Angles | 18. Special Project* |
| 8. Lines, Directions, and Maps | 19. Review Game |
| 9. Quiz 3 | 20. Test |
| 10. Review: Plane and Solid Shapes | 21. Alternate Test* |
| 11. Fractions | 22. Reference |

UNIT 5: DIVISION AND MEASUREMENT

MATHEMATICS
400

Assignment Titles

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|--|-----------------------------|
| 1. Introduction to Division | 14. Quiz 3 |
| 2. Multiplication | 15. Missing Number Problems |
| 3. Addition and Subtraction | 16. Division Practice |
| 4. Review: Time and Number Sense | 17. Roman Numerals |
| 5. Quiz 1 | 18. Review: Regrouping |
| 6. Linear Measurement | 19. Quiz 4 |
| 7. Capacity (Dry and Liquid Measurement) | 20. Patterns |
| 8. Division Facts | 21. Quiz 5 |
| 9. Review: Multiplication | 22. Special Project* |
| 10. Quiz 2 | 23. Review Game |
| 11. Reading a Calendar | 24. Test |
| 12. Perimeter and Area | 25. Alternate Test* |
| 13. Finding Perimeter and Area | 26. Reference |

UNIT 6: MULTIPLICATION AND FRACTIONS	
MATHEMATICS 400	Assignment Titles
	1. Prime and Composite Numbers
	2. Multiples
	3. Division with Remainders
	4. Quiz 1
	5. Equations and Grouping
	6. Proper and Improper Fractions
	7. Quiz 2
	8. Multiplication Facts For 11 and 12
	9. Fractions and Mixed Numbers
	10. Review: Division and Roman Numerals
	11. Quiz 3
	12. Measurements
	13. Equivalent Fractions
	14. Review: Rounding and Shapes
	15. Quiz 4
	16. Factors and Multiples
	17. Problem Solving with Equations
	18. Quiz 5
	19. Special Project*
	20. Review Game
	21. Test
	22. Alternate Test*
23. Reference	

UNIT 7: FRACTIONS AND PATTERNS	
MATHEMATICS 400	Assignment Titles
	1. Multiplication and Division
	2. Factors, Multiples, and Variables
	3. Fractions
	4. Quiz 1
	5. Multiplication and Fractions
	6. Average and Number Rules
	7. Review: Measurement and Place Value
	8. Quiz 2
	9. Fractions
	10. Missing Number Problems
	11. Quiz 3
	12. Rounding Numbers and Place Value
	13. Review: Shapes, Perimeter, and Area
	14. Fractions and Patterns
	15. Practice: Operations and Money
	16. Quiz 4
	17. Review: Cardinal and Ordinal Numbers
	18. Quiz 5
	19. Special Project*
	20. Review Game
	21. Test
	22. Alternate Test*
23. Reference	

UNIT 8: DIVISION AND FRACTIONS	
MATHEMATICS 400	Assignment Titles
	1. Factoring and Place Value
	2. Review: Two-Digit Multiplication
	3. Fractions
	4. Quiz 1
	5. Division
	6. Fractions
	7. Missing Number Problems
	8. Quiz 2
	9. Multiplication
	10. Division
	11. Quiz 3
	12. The Metric System
	13. Fractions
	14. Review: Time
	15. Quiz 4
	16. Review: Operations and Rounding
	17. Review: Roman Numerals, Measurement, and Symbols
	18. Quiz 5
	19. Special Project*
	20. Review Game
	21. Test
	22. Alternate Test*
23. Reference	

UNIT 9: DECIMALS AND FRACTIONS	
MATHEMATICS 400	Assignment Titles
	1. Decimals
	2. Money
	3. Multiplication of Whole Numbers
	4. Quiz 1
	5. Ordered Pairs
	6. Division and Averages
	7. Quiz 2
	8. Add and Subtract Decimals
	9. Fractions with Different Denominators
	10. Equivalent Fractions and Decimals
	11. Quiz 3
	12. Multiply and Divide
	13. Mixed Numbers
	14. Sensible Answers
	15. Quiz 4
	16. Review: Fractions
	17. Review
	18. Quiz 5
	19. Special Project*
	20. Review Game
	21. Test
	22. Alternate Test*
23. Reference	

UNIT 10: GRAPHING AND REVIEW	
Assignment Titles	
MATHEMATICS 400	1. Data Collection and Random Sampling
	2. Project: Collecting Data
	3. Project: Predicting Data
	4. Graphs
	5. Quiz 1
	6. Whole Numbers
	7. Decimal Numbers
	8. Quiz 2
	9. Problem Solving with Fractions
	10. Fractions
	11. Quiz 3
	12. Sizes, Shapes, and Measurements
	13. Word Problems and Equations
	14. Quiz 4
	15. Special Project*
	16. Review Game
	17. Test
	18. Alternate Test*
	19. Reference

(*) Indicates alternate assignment