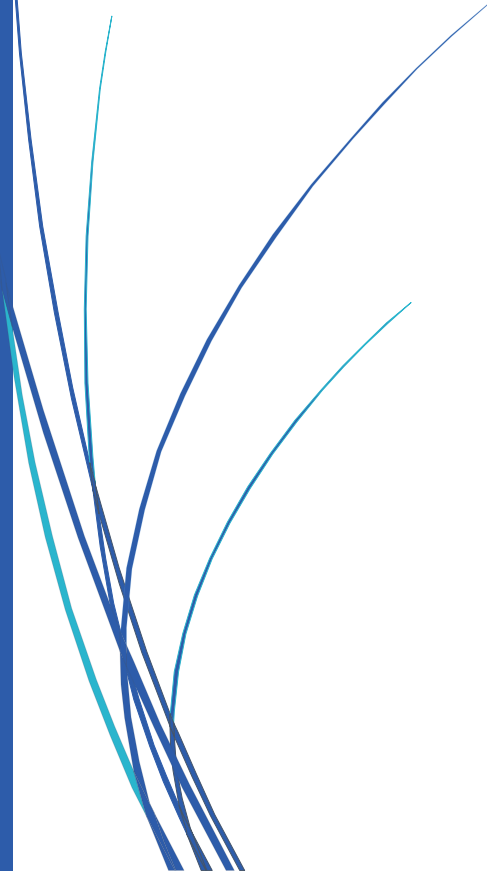




2019-20

# CALVERT HOMESCHOOL™ CURRICULUM CATALOG

## Mathematics 300



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## Mathematics 300 Course Overview

Math 300 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, learning how to apply these in measurement situations. This course also integrates geometric concepts and skills throughout the units, as well as introducing students to statistical concepts.

- **Unit 1:** Calculate problems using addition and subtraction
- **Unit 2:** Identify number patterns and build on addition and subtraction skills
- **Unit 3:** Use units of measurement and build on addition and subtraction skills
- **Unit 4:** Demonstrate understanding of place value to thousands place
- **Unit 5:** Review place value, measurement, and operations
- **Unit 6:** Use the operations of multiplication, addition, and subtraction
- **Unit 7:** Determine probability, and review operations and measurement
- **Unit 8:** Calculate fractions and decimals, and review operations and place value
- **Unit 9:** Review number patterns, operations, fractions, and shapes
- **Unit 10:** Use addition, subtraction, and multiplication in various ways and review multiple topics

Unit 1: Whole Numbers	
Assignments	
1. Course Overview	16. Quiz 3: Number Order
2. Patterns: Digits and Number Words	17. Adding with Carrying
3. Place Value	18. Cardinal and Ordinal Numbers
4. Single-Digit Addition	19. Standard Measurement for Time
5. Single-Digit Subtraction	20. Calendar Time
6. Addition Problems	21. Quiz 4: Number Operations
7. Subtraction Problems	22. Unit Concept Review (1)
8. Quiz 1: Addition and Subtraction	23. Unit Concept Review (2)
9. Numbers on a Number Line	24. Practice: Addition and Subtraction
10. Pattern for Expanded Notation	25. Quiz 5: Concept Review
11. Adding Multi-Digit Numbers	26. Special Project*
12. Quiz 2: Addition and Subtraction	27. Test
13. Subtracting 3-Digit Numbers	28. Alternate Test*
14. Measurement	29. Glossary and Credits
15. Operation Symbols	

Unit 2: Number Patterns	
Assignments	
1. Family of Facts	14. Money
2. Adding Ones, Tens, and Hundreds	15. Review: Borrowing
3. Subtracting Ones, Tens, and Hundreds	16. Addition: Checking Answers
4. Quiz 1: Fact Families	17. Subtraction: Checking Answers
5. Place Value and Number Words	18. Quiz 4: Shapes and Money
6. Addition with Carrying	19. Review: Number Order and Place Value
7. Skip Counting and Number Words	20. Review: Addition and Subtraction Facts
8. Quiz 2: Place Value	21. Quiz 5: Review
9. Skip Counting	22. Special Project*
10. Fractions	23. Test
11. Subtracting with Borrowing	24. Alternate Test*
12. Quiz 3: Fractions	25. Glossary and Credits
13. Shapes	

Unit 3: Whole Numbers and Fractions	
Assignments	
1. Family of Facts	14. Money
2. Adding Ones, Tens, and Hundreds	15. Review: Borrowing
3. Subtracting Ones, Tens, and Hundreds	16. Addition: Checking Answers
4. Quiz 1: Fact Families	17. Subtraction: Checking Answers
5. Place Value and Number Words	18. Quiz 4: Shapes and Money
6. Addition with Carrying	19. Review: Number Order and Place Value
7. Skip Counting and Number Words	20. Review: Addition and Subtraction Facts
8. Quiz 2: Place Value	21. Quiz 5: Review
9. Skip Counting	22. Special Project*
10. Fractions	23. Test
11. Subtracting with Borrowing	24. Alternate Test*
12. Quiz 3: Fractions	25. Glossary and Credits
13. Shapes	

Unit 4: Place Value	
Assignments	
1. Numbers to Thousands Place	13. Roman Numerals
2. Addition	14. Review: Subtraction with Borrowing
3. Quiz 1: Place Value and Addition	15. Quiz 4: Adding and Subtracting Fractions and Roman Numerals
4. Rounding and Estimation	16. Review: Fractions
5. Subtraction with Borrowing	17. Review: Word Problems and Money
6. Measurement	18. Quiz 5: Review
7. Quiz 2: Rounding	19. Special Project*
8. Number Words and Place Value	20. Test
9. Number Patterns	21. Alternate Test*
10. Addition and Subtraction: Horizontal Form	22. Glossary and Credits
11. Quiz 3: Place Value	
12. Adding and Subtracting Fractions	

**Unit 5: Measurement, Shapes, and Review****Assignments**

Mathematics 300

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|--|--|
| 1. Operation Symbols and Number Sense        | 14. Odd and Even Numbers                 |
| 2. Multi-Digit Addition and Subtraction (1)  | 15. Review: Checking Addition            |
| 3. Cardinal and Ordinal Numbers              | 16. Review: Checking Subtraction         |
| 4. Quiz 1: Numbers                           | 17. Review: Roman Numerals and Fractions |
| 5. Number Patterns Using Place Value         | 18. Quiz 4: Addition and Subtraction     |
| 6. Measuring Temperature                     | 19. Review: Multiple Concepts            |
| 7. Quiz 2: Place Value                       | 20. Review: Story Problems               |
| 8. Operation Symbols                         | 21. Quiz 5: Review                       |
| 9. Shapes and Symmetry                       | 22. Special Project*                     |
| 10. Rounding and Estimating                  | 23. Test                                 |
| 11. Finding Perimeter                        | 24. Alternate Test*                      |
| 12. Quiz 3: Measurement                      | 25. Glossary and Credits                 |
| 13. Multi-Digit Addition and Subtraction (2) |  |

**Unit 6: Multiplication, Addition, and Subtraction****Assignments**

Mathematics 300

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|---|---|
| 1. Multi-Digit Addition                                       | 12. Multiplication  |
| 2. Skip Counting and Multiplication                           | 13. Lines, Angles, and Temperature                            |
| 3. Review: Telling Time                                       | 14. Review: Addition and Subtraction                          |
| 4. Quiz 1: Addition, Skip Counting, and Time                  | 15. Quiz 4: Multiplication, Lines, and Temperature;<br>Review |
| 5. Review: Subtraction  | 16. Story Problems  |
| 6. Perimeter and Area   | 17. Multiple Concept Review                                   |
| 7. Review: Fractions  | 18. Review: Calendar  |
| 8. Quiz 2: Subtraction, Perimeter and Area, and<br>Fractions  | 19. Quiz 5: Story Problems and Review                         |
| 9. Addition and Equivalent Fractions                          | 20. Special Project*  |
| 10. Money Computation and Roman Numerals                      | 21. Test  |
| 11. Quiz 3: Addition, Fractions, Money, and Roman<br>Numerals | 22. Alternate Test*   |
|   | 23. Glossary and Credits                                      |

**Unit 7: Operations, Likelihood, and Probability****Assignments**

Mathematics 300

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|---|--|
| 1. Review: Place Value                          | 12. Symmetry                                       |
| 2. Review: Subtraction with Borrowing           | 13. Quiz 3: Probability, Math Facts, and Symmetry  |
| 3. Multiplication Facts                         | 14. Review: Money                                  |
| 4. Quiz 1: Place Value and Operations           | 15. Multiplication Facts                           |
| 5. Measurement                                  | 16. Multiple Concept Review                        |
| 6. Practicing Subtraction with Borrowing        | 17. Quiz 4: Money and Multiplication Facts; Review |
| 7. Mixed Numbers                                | 18. Special Project*                               |
| 8. Quiz 2: Measurement and Mixed Numbers        | 19. Test   |
| 9. Review: Expanded Notation and Roman Numerals | 20. Alternate Test*                                |
| 10. Probability and Likelihood                  | 21. Glossary and Credits                           |
| 11. Math Facts                                  |  |

Unit 8: Measurement, Fractions, and Decimals		
Assignments		
Mathematics 300	1. Shapes, Measurement, and Addition	11. Multiplication Facts
	2. Time and Measurement	12. Multiple Concept Practice
	3. Quiz 1: Shapes, Time, and Measurements	13. Review: Addition With Checking
	4. Fractions	14. Quiz 4: Multiplication Facts; Review
	5. Decimals	15. Word Problems
	6. Money Problems	16. Using Graphs
	7. Quiz 2: Fractions, Decimals, and Money	17. Quiz 5: Word Problems and Graphs
	8. Expanded Notation and Mixed Numbers	18. Special Project*
	9. Directions and Picture Graphs	19. Test
	10. Quiz 3: Expanded Notation, Mixed Numbers, and Directions	20. Alternate Test*
	21. Glossary and Credits	

Unit 9: Review: Multiple Concepts		
Assignments		
Mathematics 300	1. How Numbers Work	13. Quiz 3: Measurements
	2. Math Facts	14. Symmetry and Shapes
	3. Add/Subtract with Checking	15. Roman Numerals
	4. Multiplication	16. Quiz 4: Symmetry, Shapes, and Roman Numerals
	5. Quiz 1: Numbers and Math Facts	17. Likelihood and Graphs
	6. Equivalent Fractions	18. Problem Solving
	7. Reading and Writing Fractions	19. Quiz 5: Likelihood, Graphs, and Problem Solving
	8. Fraction Computation	20. Special Project*
	9. Quiz 2: Fractions and Mixed Numbers	21. Test
	10. Measure: Length, Perimeter, and Area	22. Alternate Test*
	11. Measure: Money, Time, and Temperature	23. Glossary and Credits
	12. Measure: Weight and Volume	

Unit 10: Basic Math Review		
Assignments		
Mathematics 300	1. Review: Rounding and Estimation	14. Review: Roman Numerals
	2. Review: Adding Fractions	15. Review: Measurement
	3. Review: Subtracting Fractions	16. Quiz 4: Shapes, Roman Numerals, and Measurements
	4. Review: Multiplication Facts	17. Review: Number Symbols and Grouping
	5. Quiz 1: Rounding, Fractions, and Multiplication	18. Review: Perimeter and Area
	6. Review: Mental Math, Graphs, Likelihood	19. Review: Problem Solving
	7. Review: Addition and Subtraction Computation	20. Quiz 5: Symbols, Perimeter and Area, and Problem Solving
	8. Quiz 2: Mental Math, Graphs, and Probability	21. Special Project*
	9. Review: Fractions and Decimals	22. Test
	10. Review: Add and Subtract Mixed Numbers and Fractions	23. Alternate Test*
	11. Review: Finding Missing Numbers	24. Glossary and Credits
	12. Quiz 3: Fractions and Missing Numbers	
	13. Review: Shapes and Symmetry	

(\* ) Indicates alternative assignment