



Use this chart to keep track of your progress through the *Number and Operations* online course.

Session 1: What Is a Number System?

- Part A: A Simpler Number System
- Part B: Comparing Number Systems
- Part C: Building the Number Line
- Homework

Session 2: Number Sets, Infinity, and Zero

- Part A: Number Sets
- Part B: The Size of Infinity
- Part C: Examining Zero
- Homework

Session 3: Place Value

- Part A: Base Two Numbers
- Part B: Exponents and Logarithms
- Part C: Place-Value Representation in Base Ten and Base Four
- Homework

Session 4: Meanings and Models for Operations

- Part A: Meanings and Relationships of the Operations
- Part B: Area Models for Multiplication and Division
- Part C: Colored-Chip Models
- Homework

Session 5: Divisibility Tests and Factors

- Part A: Alpha Math
- Part B: Divisibility Tests
- Part C: Factors
- Homework

Session 6: Number Theory

- Part A: Models for Multiples and Factors
- Part B: Looking for Prime Numbers
- Homework

Session 7: Fractions and Decimals

- Part A: Fractions to Decimals
- Part B: Decimals to Fractions
- Part C: Ordering Fractions
- Homework

Session 8: Rational Numbers and Proportional Reasoning

- Part A: Interpreting Fractions, Units, and Unitizing
- Part B: Fractions With Cuisenaire Rods
- Part C: Absolute and Relative Reasoning
- Homework

Session 9: Fractions, Percents, and Ratios

- Part A: Models for the Multiplication and Division of Fractions
- Part B: Decimals and Percents
- Part C: Fibonacci Numbers
- Homework

Session 10: Classroom Case Studies

Grades K-2:

- Part A: Observing a Case Study
- Part B: Reasoning About Number and Operations
- Part C: Problems That Illustrate Reasoning About Number and Operations
- Homework

Grades 3-5:

- Part A: Observing a Case Study
- Part B: Reasoning About Number and Operations
- Part C: Problems That Illustrate Reasoning About Number and Operations
- Homework

Grades 6-8:

- Part A: Observing a Case Study
- Part B: Reasoning About Number and Operations
- Part C: Problems That Illustrate Reasoning About Number and Operations
- Homework