

Knox County Schools Mathematics Curriculum

Unit 3: Addition and Subtraction of Fractions, Decimals, and Percents

Adv. Math 5th Grade Planning Guide

Time: About 4 weeks

Knox County Key	Knox County Performance Objectives/ <i>State Assessed Performance Indicators</i>	State Blueprint Key/SPI #	Lessons	Text Pages
A	1. Find equivalent fractions; write fractions in simplest form <i>Generate equivalent forms of fractions; represent numbers in equivalent forms</i>	A 5.1.13, 6.1.3	4.1	90-91
A	2. Find equivalent fractions, mixed numbers, and decimals <i>Connect symbolic representations of proper/improper fractions to models; represent numbers as both improper fractions and mixed numbers; generate equivalent forms of fractions; represent numbers in equivalent forms</i>	A 5.1.2, 5.1.10, 5.1.13, 6.1.3	4.2	92-93 TMS
A	3. Compare/order fractions and decimals using appropriate symbols (>, <, =) <i>Compare and order whole numbers, fractions, decimals, and percents</i>	A 5.1.7, 5.1.11, 6.1.4,6.1.5	4.3	94-97
A	4. Write percents as decimals (vice versa) <i>Generate equivalent fraction, decimals, and percents; represent numbers in a variety of forms</i>	A 5.1.13, 6.1.3	4.4	98-99
A	5. Estimate sums and differences of fractions and mixed numbers <i>Use estimation to determine a reasonable solution to a computation with fractions</i>	A 5.1.7, 6.1.8	5.1	107 -109, 278-280
A	6. Add and subtract fractions and mixed numbers with like and unlike denominators <i>Add and subtract commonly used fractions; compute efficiently with fractions</i>	A 5.1.12, 6.1.9	5.2, 5.3, 5.4	110-123
Essential Vocabulary; Refer to Houghton Mifflin, <i>Planning the Lesson</i> for vocabulary Writing Prompts: Refer to <i>Keeping a Journal</i> and <i>Writing Prompts</i> in the <i>Quick Check Options</i>		Enrichment Objectives: 1. Evaluate expressions with fractions 6.7 2. Use a calculator to find answers in scientific notation p. 180		

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State Accomplishments

- *Apply order of operations when computing with decimals. D*
- *Use the associative, commutative, identity, and distributive properties to simplify computations. D*
- *Use inverse relationships of operations to simplify computations. D*
- *Recognize when an estimate is more appropriate than an exact answer. I*
- *Identify missing or too much information in real-world problems. D*
- *Demonstrate knowledge and understanding of grade level mathematical terms. D*

Literature Resources:

Building Big by David Macaulay

Neale S. Godfrey's Ultimate Kids' Money Book, Simon & Schuster

Commercial Materials/manipulatives:

Middle School Mathematician, Incentive Publications

Computation and Number Sense, Instructional Fair

Math Topics, Instructional Fair by Steve and Janis Marcy

by Steve and Janis Marcy

Punchline Problem Solving by Steve and Janis Marcy

Technology:

Use fraction functions on TI-15

Internet Activities for Math, Teacher Created Materials, Inc.
Resources with textbook

Textbook:

Houghton Mifflin Math Tennessee, Grade 6

Assessment:

Knox County Schools Mathematics 5th grade AP Unit 3 Test