

Knox County Schools Mathematics Curriculum

Unit 7: Fractions and Decimals

4th 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. Read, write, compare, and order fractions for parts of a whole or set, (include locations on a number line, division of whole numbers and fractional names for one) <i>Identify fractions as parts of whole units, as parts of sets, or locations on number lines</i>	A 4.1.6	19.1, 19.2, 19.4, 19.5	490-493 498-503
A	2. Represent improper and mixed numbers using pictorial representations and/or manipulatives (include equivalent fractions and simplest form) <i>Represent numbers as both improper fractions and mixed numbers</i>	A 4.1.12	19.3 19.7	494-497, 508-510
A	3. Add/subtract fractions having like denominators through 12 (answers in simplest form) <i>Add and subtract fractions with like denominators; generate equivalent forms of whole numbers, commonly used fractions, and decimals</i>	A 4.1.11 4.1.13	20.1	516-519
A	4. Write number sentences to solve fraction word problems (include money) <i>Solve story problems using whole numbers, fractions, and decimals</i>	A 4.1.14	19.6, 20.5	504- 507, 526
A	5. Read and write decimals, identify place value of digits through thousandths <i>Read and write numbers to hundredths; identify the place value of a given digit to hundredths</i>	A 4.1.4 4.1.5	21.1, 21.2, 21.3	542-548
A	6. Identify/write fractions and decimal equivalents, use models and illustrations <i>Generate equivalent forms of whole numbers, commonly used fractions, and decimals</i>	A 4.1.13	19.3, 21.3 21.4	494-496, 546-548 550-552
A	7. Identify and write equivalent decimals <i>Generate equivalent forms of whole numbers, commonly used fractions and decimals</i>	A 4.1.13	21.4	550-552

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A	8. Add/subtract decimal numbers(include monetary units) <i>Add and subtract decimals (includes monetary units)</i>	4.1.9	22.3, 22.4, 22.5	572-578
A	9. Solve word problems through hundredths involving the addition, subtraction, and multiplication of decimals (include money) <i>Solve one-step real-world problems involving addition, subtraction, or multiplication of whole numbers and/or decimals</i>	A 4.1.14	22.5	576-578

<p>Essential Vocabulary: Refer to Houghton Mifflin <i>Planning The Lesson</i> for vocabulary</p> <p>Writing Prompts: Refer to <i>Keeping a Journal</i> and <i>Writing Prompts</i> in the Quick Check Options</p>	<p>Advanced Objectives</p> <ol style="list-style-type: none"> 1. *Add and subtract mixed numbers 20.2 2. *Decide how to write the quotient 20.3 3. *Add fractions with unlike denominators 20.6 4. * Subtracting fractions with unlike denominators 20.7 5. Use a circle graph to interpret a scaled drawing 20.8 6. *Compare and order decimals 21.6 7. *Compare and order decimals and mixed numbers 21.7 8. *Estimate decimal sums and differences 22.2 <p>* Denotes Advanced Objectives needed for AP Preparation</p>
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State Accomplishments

- *Order/compare fractions and mixed numbers with like denominators or unit fractions. D (ex. $1/4 < 1/2$). (pp.492-493, 498-500)*
- *Use various models and equivalent forms to represent, order, and compare whole numbers and commonly used fractions and mixed numbers (e.g., number lines, base ten blocks, expanded notation, Venn diagrams, and hundreds boards). (4.1.tpi.5)*

Literature Resources:

The Doorbell Rang by Pat Hutchins
Give Me Half by Stuart Murphy
The Hershey Bar Fraction Book by Jerry Pallotta
Eating Fractions by Bruce McMillan
Fraction Action by Loreen Leedy
Gator Pie by Louise Mathews

Commercial Materials/manipulatives:

Pattern Blocks
Math By All Means: Probability Grades 3-4, by Marilyn Burns
About Teaching Mathematics, Second Edition, by Marilyn Burns
Cuisenaire Rods
Fraction Blocks
Fraction Factory (Creative Publications)
Fraction Circles

Technology:

<http://mathforum.org/paths/fractions/>
<http://www.davidson.k12.nc.us/webquests/fraction/fraction.htm>
<http://lessonplancentral.com/lessons/math/fractions/>
<http://mathforum.org/tzt/faq/faq.fraction.html/>
<http://visualfractions.com/index.htm>
www.eduplace.com

Text: Houghton Mifflin Mathematics, Grade 4

Assessment:

Knox County Mathematics, Grade 4, Unit Test 7

Available in Houghton Mifflin Student Text

- Chapter Pretest
- Quick Checks
- Chapter Reviews
- Chapter Tests

Available in Houghton Mifflin Assessment

- Unit Tests

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