

Knox County Schools Mathematics Curriculum
Unit 6: Ratio, Rates, Proportion, Percent, and Probability

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. Write ratios in a variety of forms (include fractions); connect ratios to models, real-world situations, and symbolic representations; solve problems <i>Connect ratios to a variety of models, real-world situations and symbolic representations; solve problems involving ratio and proportion</i>	A 6.1.10, 6.4.9	16.1, 16.2, 16.4	420-423, 428-430 506-508
A	2. Use rates to compare quantities; use the distance formula		16.2, 16.3	424-427
A	3. Use proportions to solve problems (include scales to read maps) <i>Use scales to read maps; solve problems involving ratio and proportion</i>	A 6.4.6, 6.4.9	16.4, 16.6	428-431, 436-439, 432-434, 454-456
A	4. Relate ratios and percents; write equivalent fractions, decimals, and percents; compare and order fractions, decimals and percents; estimate percent of a number <i>Represent numbers in a variety of forms</i>	A 6.1.3	17.1, 17.2, 17.3, 17.4	442-453
A	5. Represent the likelihood of an event using a fractional number from zero to one; determine the most likely, least likely, or equally likely outcomes in simple experiments <i>Represent the likelihood of an event using a fractional number from one to zero; determine the most likely, least likely, or equally likely outcomes in simple experiments</i>	A 5.5.5, 5.5.6, 6.5.6	19.1, 19.2	484-492, 500-502
A	6. Use a tree diagram or organized list to determine all possible outcomes of an event <i>Use a tree diagram or organized list to determine all possible outcomes of a simple compound event</i>	A 6.5.9	19.1, 19.4	222-225, 486-489, 496-498
Essential Vocabulary: Refer to Houghton Mifflin, <i>Planning the Lesson</i> for vocabulary		Enrichment Activities: 1. Find percent of a number 18.1 2. Find a percent 18.2 3. Find a number when you know a percent 18.3 4. Use an equation to solve a percent problem 18.5		

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Writing Prompts: Refer to <i>Keeping a Journal</i> and <i>Writing Prompts</i> in the <i>Quick Check Options</i>	5. Calculate simple interest 18.6, 18.7 6. Find interest for credit card debt p. 481 7. Find combinations and permutations p. 504
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State Accomplishments <ul style="list-style-type: none">• Use a sample space to predict the probability of an event D• Describe the likelihood or chance of events D• Explain the importance of sample size I Literature Resources: <p><u>Flatland: A Romance of Many Dimensions</u> by Edwin A. Abbot <u>The Fly on the Ceiling: A Math Myth</u> by Julie Glass</p> Commercial Materials/manipulatives: <p><u>Middle School Mathematician</u>, Incentive Publications <u>Math Topics</u>, Instructional Fair <u>Middle School Math with Pizzazz</u> by Steve and Janis Marcy</p>	Technology: <ul style="list-style-type: none">• Internet Activities for Math, Teacher Created Materials, Inc.• National Library of Virtual Manipulatives matti.usu.edu/nlvm/nav/vlibrary.html• Ask Dr. Math (questions about pi) mathforum.org/library/drmath/sets/mid_pi.html Text: <p><u>Houghton Mifflin Math Tennessee, Grade 6</u> http://www.eduplace.com/kids/mw/</p> Assessment: <p>Knox County Schools Mathematics AP 5th Grade, Unit 6 Test</p>
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