Topic F

Dividing Decimals

**5.NBT.3, 5.NBT.7**

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| Focus Standards: | 5.NBT.3 | Read, write, and compare decimals to thousandths.   1. Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., 347.392 = 3 × 100 + 4 × 10 + 7 × 1 + 3 × (1/10) + 9 × (1/100) + 2 × (1/1000). 2. Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons. |
| 5.NBT.7 | Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. |
| Instructional Days: | 4 |  |
| Coherence -Links from: | G4–M3 | Multi-Digit Multiplication and Division |
| -Links to: | G5–M2 | Multi-Digit Whole Number and Decimal Fraction Operations |
|  | G6–M2 | Arithmetic Operations Including Dividing by a Fraction |

Topic F concludes Module 1 with an exploration of division of decimal numbers by one-digit whole-number divisors using place value charts and disks. Lessons begin with easily identifiable multiples such as 4.2 ÷ 6 and move to quotients that have a remainder in the smallest unit (through the thousandths). Written methods for decimal cases are related to place value strategies, properties of operations, and familiar written methods for whole numbers (**5.NBT.7**). Students solidify their skills with an understanding of the algorithm before moving on to division involving two-digit divisors in Module 2. Students apply their accumulated knowledge of decimal operations to solve word problems at the close of the module.

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| A Teaching Sequence Toward Mastery of Dividing Decimals |
| Objective 1: Divide decimals by single-digit whole numbers involving easily identifiable multiples using place value understanding and relate to a written method. (Lesson 13) |
| Objective 2: Divide decimals with a remainder using place value understanding and relate to a written method. (Lesson 14) |
| Objective 3: Divide decimals using place value understanding including remainders in the smallest unit. (Lesson 15) |
| Objective 4: Solve word problems using decimal operations. (Lesson 16) |