



## Topic F

# Partial Quotients and Multi-Digit Whole Number Division

## 5.NBT.6

<b>Focus Standard:</b>	5.NBT.6	Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
<b>Instructional Days:</b>	5	
<b>Coherence</b>	<b>-Links from:</b>	G4–M3 Multi-Digit Multiplication and Division
	<b>-Links to:</b>	G6–M2 Arithmetic Operations Including Division of Fractions

The series of lessons in Topic F leads students to divide multi-digit dividends by two-digit divisors using the written vertical method. Each lesson moves to a new level of difficulty with a sequence beginning with divisors that are multiples of 10 to non-multiples of 10. Two instructional days are devoted to single-digit quotients with and without remainders before progressing to two- and three-digit quotients (5.NBT.6).

## A Teaching Sequence Towards Mastery of Partial Quotients and Multi-Digit Whole Number Division

**Objective 1: Divide two- and three-digit dividends by multiples of 10 with single-digit quotients and make connections to a written method.**  
(Lesson 19)

**Objective 2: Divide two- and three-digit dividends by two-digit divisors with single-digit quotients and make connections to a written method.**  
(Lessons 20–21)

**Objective 3: Divide three- and four-digit dividends by two-digit divisors resulting in two- and three-digit quotients, reasoning about the decomposition of successive remainders in each place value.**  
(Lessons 22–23)