



## FROM MARILYN BURNS

### Dear Colleague,

These lessons introduce students to using long division notation when solving problems with greater numbers. The problems in these lessons are again presented in the context of forming relay teams, which builds on students' familiarity from their prior experience solving these types of problems. Also, even though the previous lessons have moved students toward relying on numerical skills, here the students again model solutions with tiles, thus giving them additional support for building their understanding.

To help them learn to record with long division notation, students first solve problems that do not present them with numerical challenges. Then they apply their new learning to problems with greater numbers, solving problems with and without remainders.

There are 30 students.  
Each team has 5 students.  
Can they make teams with no one left out?  
How many teams can they make?

$$\begin{array}{r} 6 \\ 5 \overline{)30} \\ \underline{30} \\ 0 \end{array} \quad 6 \times 5 = 30$$



### In Lessons 21–25, students...

- Use the inverse relationship between division and multiplication to solve problems.
- Calculate the quotients and remainders for two-digit dividends divided by one-digit divisors.
- Communicate ideas with key math vocabulary: *division equation, dividend, divisor, quotient, and remainder.*

The procedure that students learn for recording long division differs from how students have traditionally been taught. Rather than the divide-multiply-subtract-bring down procedure, here students learn how to figure out partial quotients, which they then combine to figure out the answer. They are encouraged to use 10 as a partial quotient when possible to benefit from our place-value numeration system.

$$\begin{array}{r} 4 \\ 10 \overline{)43} \\ \underline{30} \\ 13 \\ \underline{12} \\ 1 \end{array} \quad \begin{array}{l} 14 \text{ R}1 \\ 10 \times 3 = 30 \\ 4 \times 3 = 12 \end{array}$$

Finally students practice division by learning to play *Remainder Zero*, a game in which they generate six division problems from rolling three number cubes, solve them (using long division as needed), and see how many problems result in a remainder of zero.

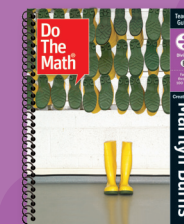
*Marilyn Burns*

“These lessons introduce students to using long division notation when solving problems with greater numbers.”

Lessons 21–25



Calculate Quotients and Remainders



Division B  
Teacher Guide  
Letter: Lessons 21–25

### Remainder Zero

#### DIRECTIONS

1 Roll three number cubes.

2 If any numbers are the same, roll one of the cubes with the same number again. You need three different numbers.

3  $34 \div 5 = 6 \text{ R}4$   
 $43 \div 5 = 8 \text{ R}3$   
 $53 \div 4 = 13 \text{ R}1$   
 $54 \div 3 = 18 \text{ R}0$   
 $45 \div 3 = 15 \text{ R}0$   
 $35 \div 4 = 8 \text{ R}3$   
Write six division problems. Solve them.

4 Number of zero remainders: **2**  
Record the number of zero remainders you have.

See pages 38–41 for full lesson.

See pages 42–44 for full lesson.

**PLANNER**

**LESSON 21**

**LESSON 22**

**LESSON 23**

**LESSON 24**

**LESSON 25**

<p><b>Lesson Summary</b></p>	<p>Students use long division to solve division problems set in the context of forming relay teams.</p>	<p>Students continue to use long division to solve division problems, now with remainders.</p>		<p>Students solve problems using long division for two-digit dividends and one-digit divisors.</p>	<p>Students play a division game that gives them practice dividing two-digit dividends by one-digit divisors.</p>	<p><b>ASSESSMENT</b> <b>Progress Monitoring</b></p> <p>Students demonstrate understanding of the objectives of Lessons 21–24 by completing a <i>WorkSpace</i> page independently.</p>
<p><b>Objectives</b></p> <p>Find an alignment to standards at <a href="http://www.scholastic.com/DoTheMath/community">www.scholastic.com/DoTheMath/community</a></p>	<ul style="list-style-type: none"> <li>Use the inverse relationship between division and multiplication to solve problems.</li> <li>Calculate the quotients and remainders for two-digit dividends and one-digit divisors.</li> <li>Communicate ideas with key math vocabulary: <i>dividend</i>, <i>divisor</i>, <i>quotient</i>, and <i>remainder</i>.</li> </ul>	<ul style="list-style-type: none"> <li>Use the inverse relationship between division and multiplication to solve problems.</li> <li>Calculate the quotients and remainders for two-digit dividends and one-digit divisors.</li> <li>Communicate ideas with key math vocabulary: <i>dividend</i>, <i>divisor</i>, <i>quotient</i>, and <i>remainder</i>.</li> </ul>		<ul style="list-style-type: none"> <li>Use the inverse relationship between division and multiplication to solve problems.</li> <li>Calculate the quotients and remainders for two-digit dividends and one-digit divisors.</li> <li>Communicate ideas with key math vocabulary: <i>dividend</i>, <i>divisor</i>, <i>quotient</i>, and <i>remainder</i>.</li> </ul>	<ul style="list-style-type: none"> <li>Use the inverse relationship between division and multiplication to solve problems.</li> <li>Calculate the quotients and remainders for two-digit dividends and one-digit divisors.</li> <li>Communicate ideas with key math vocabulary: <i>dividend</i>, <i>divisor</i>, <i>quotient</i>, and <i>remainder</i>.</li> </ul>	<ul style="list-style-type: none"> <li>Use the inverse relationship between division and multiplication to solve problems.</li> <li>Calculate the quotients and remainders for two-digit dividends and one-digit divisors.</li> <li>Communicate ideas with key math vocabulary: <i>division equation</i>, <i>dividend</i>, <i>divisor</i>, <i>quotient</i>, and <i>remainder</i>.</li> </ul>
<p><b>Materials</b></p> <p> = Teacher Bag   = Games Bag   = Student Bag</p>	<ul style="list-style-type: none"> <li><i>WorkSpace</i> page 52</li> <li>color tiles  </li> </ul>	<ul style="list-style-type: none"> <li><i>WorkSpace</i> page 53</li> <li>color tiles  </li> </ul>		<ul style="list-style-type: none"> <li><i>WorkSpace</i> pages 54 and 55</li> </ul>	<ul style="list-style-type: none"> <li><i>WorkSpace</i> pages 56–58</li> <li>number cubes (1–6)  </li> <li><i>Do The Math Community News</i></li> </ul>	<ul style="list-style-type: none"> <li><i>WorkSpace</i> pages 59–63</li> <li>number cubes (5–9, roll again) </li> </ul>
<p><b>Built-in Differentiation</b></p>	<p>Using <b>manipulatives</b> to model a problem before solving it supports students as they convert the problem from the concrete representation to symbolic representation.</p>	<p><b>Language development</b> through word problems allows students to build their math vocabulary and skill explaining how to solve division equations.</p>		<p>Working in pairs to solve problems by comparing answers, communicating their thinking, defending their answer, and explaining how to solve the problems, all support and reinforce students' <b>vocabulary development</b>.</p>	<p>Playing a game <b>cooperatively</b> with the support and help of a partner enables students to develop confidence and competence.</p>	<p>Assessing students with <b>familiar problems</b> that students have used in these lessons allows students to show their understanding without having to approach the material in an unfamiliar format.</p>

Lessons 21–25



Calculate Quotients and Remainders

Division B  
 Teacher Guide  
 Planner: Lessons 21–25



**TeacherSpace™: Division CD-ROM** contains videos, professional articles, and reproducibles to support teaching these lessons.

# LESSON 23 Solving division problems with partial quotients

**Last lesson** Students continue to use long division to solve division problems, now with remainders.

**Lesson 23** Students solve problems using long division for two-digit dividends and one-digit divisors.

**Next Lesson** Students play a division game that gives them practice dividing two-digit dividends by one-digit divisors.

## Lesson Summary

Students solve problems using long division for two-digit dividends and one-digit divisors.

## Objectives

- Use the inverse relationship between division and multiplication to solve problems.
- Calculate the quotients and remainders for two-digit dividends and one-digit divisors.
- Communicate ideas with key math vocabulary: *dividend, divisor, quotient, and remainder.*

## Materials

- *WorkSpace* pages 54 and 55

## Language Development

### Key Math Vocabulary

ENGLISH	SPANISH
dividend	<i>dividendo</i>
divisor	<i>divisor</i>
quotient	<i>cociente</i>
remainder	<i>residuo</i>

### Academic Vocabulary

ENGLISH	SPANISH
multiplication equation	<i>ecuación de multiplicación</i>

**Cognates** are shown in italics; pointing out the similarity of these words to their English equivalents will help your Spanish-speaking students acquire vocabulary.

WHOLE GROUP

## STEP 1 Demonstrate solving a division problem by taking out 10s.

### 1 Introduce the lesson.

*Today we will continue to solve division problems using long division.*

### 2 Present a problem.

Write the long division for  $42 \div 3$  on the board.

$$\begin{array}{r} 3 \overline{)42} \end{array}$$

*To solve the problem, I can write the related multiplication, but it doesn't help me because I don't know what number times 3 is 42.*

*I do know that there are at least 10 groups of 3 in 42. I know that because  $10 \times 3 = 30$  and 30 is less than 42.*

Record the multiplication equation, 10 in the quotient and 30 under 42.

$$\begin{array}{r} 10 \\ 3 \overline{)42} \\ \underline{30} \end{array} \quad 10 \times 3 = 30$$

*When I subtract I get 12. Then I think: What number times 3 is 12? I know that 4 times 3 equals 12, so I can write 4 above the 10.*

$$\begin{array}{r} 4 \\ 10 \\ 3 \overline{)42} \\ \underline{30} \\ 12 \\ \underline{12} \\ 0 \end{array} \quad \begin{array}{l} 10 \times 3 = 30 \\ 4 \times 3 = 12 \end{array}$$

WHOLE GROUP

## STEP 2 Demonstrate a second example.

### 1 Solve $64 \div 5$ .

Write the long division for  $64 \div 5$  on the board.

*I know that there are at least 10 groups of 5 in 64 because  $10 \times 5 = 50$  and 50 is less than 64.*

$$\begin{array}{r} 10 \\ 5 \overline{)64} \\ \underline{50} \\ 14 \end{array} \quad 10 \times 5 = 50$$

*When I subtract I get 14.*

*I ask myself: What number times 5 is close to 14? 2 times 5 equals 10, so I can write 2 in the quotient. Then I add  $10 + 2$  to figure the quotient. The remainder is 4.*

Record the long division.

$$\begin{array}{r} 2 \rightarrow 12 \text{ R}4 \\ 10 \\ 5 \overline{)64} \\ \underline{50} \\ 14 \\ \underline{10} \\ 4 \end{array} \quad \begin{array}{r} 12 \\ \times 5 \\ \underline{60} \\ + 4 \\ 64 \end{array} \quad \begin{array}{l} 10 \times 5 = 50 \\ 2 \times 5 = 10 \end{array}$$

### 2 Show how to check the answer.

*To check, multiply the quotient, 12, by the divisor, 5. Then add the remainder. We get 64, so 12 R4 is correct.*

### 3 Demonstrate how to figure the answer.

*We have 10 groups of 3 in 42 and another 4 groups of 3 in 42. In all, that is 14 groups of 3 in 42.*

Draw lines from 4 and 10 and write 14.

$$\begin{array}{r} 4 \rightarrow 14 \\ 10 \\ 3 \overline{)42} \\ \underline{30} \\ 12 \\ \underline{12} \\ 0 \end{array} \quad \begin{array}{l} 10 \times 3 = 30 \\ 4 \times 3 = 12 \end{array}$$

*So the answer to the problem  $42 \div 3$  is 14.*

### 4 Show how to check the answer.

*Just to be sure, I can check to see if  $14 \times 3$  equals 42.*

Multiply  $14 \times 3$  on the board.

$$\begin{array}{r} 4 \rightarrow 14 \\ 10 \\ 3 \overline{)42} \\ \underline{30} \\ 12 \\ \underline{12} \\ 0 \end{array} \quad \begin{array}{r} 14 \\ \times 3 \\ \underline{42} \end{array} \quad \begin{array}{l} 10 \times 3 = 30 \\ 4 \times 3 = 12 \end{array}$$

*So 14 is correct.*

CONTINUE

LESSON 23 continued Solving division problems with partial quotients

WHOLE GROUP

STEP 3 Elicit student responses to solve a problem.

1 Present a problem.

Write the problem on the board.

$$\begin{array}{r} 4 \overline{)52} \end{array}$$

2 Students help solve the problem.

As you ask students the following questions, record on the board.

*I don't know what number times 4 is 52, so let's begin with 10. Are there at least 10 groups of 4 in 52? (yes)*

*How do you know? (10 × 4 = 40 and 40 is less than 52)*

*How much is left? (12) How did you figure that? (subtracted 40 from 52)*

$$\begin{array}{r} 10 \\ 4 \overline{)52} \\ \underline{40} \quad 10 \times 4 = 40 \\ 12 \end{array}$$

*How many 4s are there in 12? (3)*

*What is 3 × 4? (12)*

Record as shown.

$$\begin{array}{r} 3 \\ 10 \\ 4 \overline{)52} \\ \underline{40} \quad 10 \times 4 = 40 \\ 12 \\ \underline{12} \quad 3 \times 4 = 12 \\ 0 \end{array}$$

*What is the remainder? (0)*

*What is the quotient? (13)*

*How did you get the quotient? (added 10 + 3)*

Record on the board as shown.

$$\begin{array}{r} 3 \rightarrow 13 \\ 10 \\ 4 \overline{)52} \\ \underline{40} \quad 10 \times 4 = 40 \\ 12 \\ \underline{12} \quad 3 \times 4 = 12 \\ 0 \end{array}$$

3 Students check the answer.

*You can check to see if 13 is correct by multiplying 13 × 4 to see if it is 52.*

Have students calculate 13 × 4. Choose a student to record his or her multiplication on the board.

$$\begin{array}{r} 3 \rightarrow 13 \\ 10 \\ 4 \overline{)52} \\ \underline{40} \quad 10 \times 4 = 40 \\ 12 \\ \underline{12} \quad 3 \times 4 = 12 \\ 0 \end{array} \quad \begin{array}{r} 13 \\ \times 4 \\ \hline 52 \end{array}$$

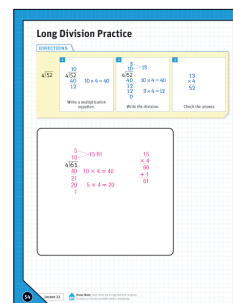
PARTNERS

STEP 4 Students solve a problem.

1 Partners solve a problem.

Have students turn to *WorkSpace* page 54.

*Now you and your partner will solve the problem together, but each of you will record it on the WorkSpace page.*



Give time for students to think, pair, share to solve the problem.

2 Record the solution.

Choose a student to tell the steps and his or her thinking as he or she solved the problem, and record on the board.

$$\begin{array}{r} 5 \rightarrow 15 \text{ R}1 \\ 10 \\ 4 \overline{)61} \\ \underline{40} \quad 10 \times 4 = 40 \\ 21 \\ \underline{20} \quad 5 \times 4 = 20 \\ 1 \end{array} \quad \begin{array}{r} 15 \\ \times 4 \\ \hline 60 \\ + 1 \\ \hline 61 \end{array}$$

Have students compare their solution to the one on the board and make corrections or changes as necessary.

INDIVIDUALS

STEP 5 Students solve division problems.

1 Students complete *WorkSpace* page 55.

*Now you will solve some problems on your own. You may talk to your partner as you solve them or you may both wait until you are finished to compare your solutions.*

WORKSPACE PAGE 55

**More Long Division Practice**

**DIRECTIONS**

1 $3 \overline{)47}$	2 $5 \overline{)15R2}$	3 $15 \overline{)45}$
$10$ $30$ $17$	$30$ $10 \times 3 = 30$	$30$ $10 \times 3 = 30$
Write a multiplication equation.	Write the division.	Check the answers.

①  $5 \overline{)65}$

$$\begin{array}{r} 13 \\ 10 \\ 5 \overline{)65} \\ \underline{50} \quad 10 \times 5 = 50 \\ 15 \\ \underline{15} \quad 3 \times 5 = 15 \\ 0 \end{array} \quad \begin{array}{r} 13 \\ \times 5 \\ \hline 65 \end{array}$$

②  $3 \overline{)54}$

$$\begin{array}{r} 18 \\ 10 \\ 3 \overline{)54} \\ \underline{30} \quad 10 \times 3 = 30 \\ 24 \\ \underline{24} \quad 8 \times 3 = 24 \\ 0 \end{array} \quad \begin{array}{r} 18 \\ \times 3 \\ \hline 54 \end{array}$$

③  $6 \overline{)75}$

$$\begin{array}{r} 12 \text{ R}3 \\ 10 \\ 6 \overline{)75} \\ \underline{60} \quad 10 \times 6 = 60 \\ 15 \\ \underline{12} \quad 2 \times 6 = 12 \\ 3 \end{array} \quad \begin{array}{r} 12 \\ \times 6 \\ \hline 72 \\ + 3 \\ \hline 75 \end{array}$$

④  $4 \overline{)68}$

$$\begin{array}{r} 17 \\ 10 \\ 4 \overline{)68} \\ \underline{40} \quad 10 \times 4 = 40 \\ 28 \\ \underline{28} \quad 7 \times 4 = 28 \\ 0 \end{array} \quad \begin{array}{r} 17 \\ \times 4 \\ \hline 68 \end{array}$$

Home Note: Your child uses long division notation to solve division problems with and without remainders.

SUPPORTING INSTRUCTION

Circulate around the room giving assistance as needed. If a student happens to know the answer without going through the steps, that's fine, but have him or her check the answer with multiplication.

STOP

# LESSON 25 Assessing student understanding



## Lesson Summary

Students demonstrate understanding of the objectives of Lessons 21–24 by completing a *WorkSpace* page independently.

## Objectives

- Use the inverse relationship between division and multiplication to solve problems.
- Calculate the quotients and remainders for two-digit dividends and one-digit divisors.
- Communicate ideas with key math vocabulary: *division equation, dividend, divisor, quotient, and remainder.*

## Materials

- *WorkSpace* pages 59–63  = Games Bag
- number cubes (5–9, roll again) 

## Language Development

### Key Math Vocabulary

ENGLISH	SPANISH
dividend	<i>dividendo</i>
division equation	<i>ecuación de división</i>
divisor	<i>divisor</i>
quotient	<i>cociente</i>
remainder	<i>residuo</i>

### Academic Vocabulary

ENGLISH	SPANISH
multiplication equation	<i>ecuación de multiplicación</i>

**Cognates** are shown in italics; pointing out the similarity of these words to their English equivalents will help your Spanish-speaking students acquire vocabulary.



## INDIVIDUALS

### STEP 1 Students complete an assessment.

- 1 Introduce the lesson.**  
 Today you will show what you know by completing a *WorkSpace* page and then you will play *Division Bingo*.
- 2 Explain the directions for the assessment.**  
 Have students turn to *WorkSpace* page 59. Explain that they will be doing the same kinds of problems that they have been doing each day.
- 3 Students complete page 59 independently.**  
 Give students as much time as they need to complete the assessment page.

WORKSPACE PAGE 59

**Show What You Know**

**DIRECTIONS**  
 Solve and check answers.

Possible solution methods shown:

$\begin{array}{r} 6 \overline{)745} \\ \underline{42} \phantom{0} \\ 32 \phantom{0} \\ \underline{25} \phantom{0} \\ 5 \phantom{0} \\ \underline{45} \\ 0 \end{array}$ $6 \times 7 = 42$ $6 \times 12 = 72$	$\begin{array}{r} 5 \overline{)579} \\ \underline{10} \phantom{0} \\ 17 \phantom{0} \\ \underline{15} \phantom{0} \\ 29 \\ \underline{25} \\ 4 \phantom{0} \end{array}$ $5 \times 15 = 75$ $5 \times 25 = 125$
$\begin{array}{r} 2 \overline{)672} \\ \underline{12} \phantom{0} \\ 55 \phantom{0} \\ \underline{12} \phantom{0} \\ 43 \phantom{0} \\ \underline{12} \phantom{0} \\ 31 \phantom{0} \\ \underline{0} \\ 0 \end{array}$ $2 \times 6 = 12$ $2 \times 6 = 12$	$\begin{array}{r} 9 \overline{)3157} \\ \underline{18} \phantom{0} \\ 13 \phantom{0} \\ \underline{27} \phantom{0} \\ 6 \phantom{0} \\ \underline{54} \phantom{0} \\ 7 \phantom{0} \\ \underline{72} \phantom{0} \\ 0 \end{array}$ $9 \times 6 = 54$ $9 \times 3 = 27$
$\begin{array}{r} 7 \overline{)4770} \\ \underline{14} \phantom{0} \\ 33 \phantom{0} \\ \underline{21} \phantom{0} \\ 12 \phantom{0} \\ \underline{14} \phantom{0} \\ 18 \phantom{0} \\ \underline{14} \phantom{0} \\ 4 \phantom{0} \end{array}$ $7 \times 4 = 28$	$\begin{array}{r} 4 \overline{)6185} \\ \underline{16} \phantom{0} \\ 45 \phantom{0} \\ \underline{16} \phantom{0} \\ 29 \phantom{0} \\ \underline{24} \phantom{0} \\ 5 \phantom{0} \\ \underline{4} \phantom{0} \\ 1 \end{array}$ $4 \times 6 = 24$

## PARTNERS

### STEP 2 Students play a game.

- 1 Students play *Division Bingo*.**  
 As a student finishes the assessment, have him or her pair up with someone else who is finished. They should play quietly while others are completing their assessment.  
 Students should record their equations on *WorkSpace* page 60 and use the *Division Bingo* card C on *WorkSpace* page 61.  
 If time allows, they can play *Division Bingo* again but this time recording equations on *WorkSpace* page 62 and using the *Division Bingo* card D on *WorkSpace* page 63.

Division Bingo C

Roll	Dividend from Bingo Card	Equations
1	36	$36 \div 7 = 8$ $8 \times 7 = 56$
2	30	$30 \div 5 = 6$ $6 \times 5 = 30$
3	48	$48 \div 8 = 6$ $6 \times 8 = 48$
4	35	$35 \div 5 = 7$ $7 \times 5 = 35$
5	45	$45 \div 9 = 5$ $5 \times 9 = 45$

Division Bingo C

40	30	56
49	72	45
48	35	63

WORKSPACE PAGE 62

**Division Bingo**

**DIRECTIONS**  
 Roll and record the number. Choose a dividend and record. Write a division and a multiplication equation.

Answers will vary. Possible answers shown:

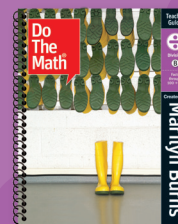
Roll	Dividend from Bingo Card	Equations
7	56	$56 \div 7 = 8$ $8 \times 7 = 56$
8	64	$64 \div 8 = 8$ $8 \times 8 = 64$
5	40	$40 \div 5 = 8$ $8 \times 5 = 40$

WORKSPACE PAGE 63

**Division Bingo D**

56	42	36
40	54	81
64	30	48

## AFTER THE LESSON



LESSON 25 continued Assessing student understanding

ASSESSMENT

Progress Monitoring

**Objectives**

- Use the inverse relationship between division and multiplication to solve problems.
- Calculate the quotients and remainders for two-digit dividends and one-digit divisors.
- Communicate ideas with key math vocabulary: *division equation, dividend, divisor, quotient, and remainder.*

**Differentiating Instruction**

Although the lessons are carefully scaffolded and paced at a rate more likely to give students a chance for optimal learning, there will be instances when students are still struggling and need extra support. Also, there will be instances when students would benefit from additional challenges or practice. Try the teaching ideas below.

**For Students Who Need More Support**

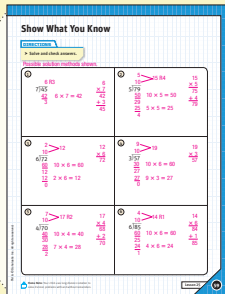
For students who work slowly to solve the six division problems when playing *Remainder Zero*, modify the game rules so that they only need to choose four of the six problems to solve. The winning team is still the one with the greater number of zero remainders.

**For Students Ready for a Challenge**

Have the student play *Remainder Zero* by himself or herself using the 3-9 number cube, the 4-9 number cube, and the 1-6 number cube. The dividends will range up to 98 making more challenging division problems. The student could also play against another student who is ready for a challenge.

**Assess**

Use the annotated page to correct *WorkSpace* page 59.



Note the progress of each student in the appropriate rows on the tracking chart on page 143.

To review the full-size Annotated Teacher Version of this *WorkSpace* see page 45.

**Show What You Know**

**DIRECTIONS**

► Solve and check answers.

Possible solution methods shown.

<p>①</p> $\begin{array}{r} 6 \text{ R}3 \\ 7 \overline{)45} \\ \underline{42} \phantom{0} \\ 3 \phantom{0} \end{array}$ $6 \times 7 = 42$ $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \\ + 30 \\ \hline 45 \end{array}$	<p>②</p> $\begin{array}{r} 5 \phantom{0} \rightarrow 15 \text{ R}4 \\ 10 \phantom{0} \\ 5 \overline{)79} \\ \underline{50} \phantom{0} \\ 29 \phantom{0} \\ \underline{25} \phantom{0} \\ 4 \phantom{0} \end{array}$ $10 \times 5 = 50$ $5 \times 5 = 25$ $\begin{array}{r} 15 \\ \times 5 \\ \hline 75 \\ + 40 \\ \hline 79 \end{array}$
<p>③</p> $\begin{array}{r} 2 \phantom{0} \rightarrow 12 \\ 10 \phantom{0} \\ 6 \overline{)72} \\ \underline{60} \phantom{0} \\ 12 \phantom{0} \\ \underline{12} \phantom{0} \\ 0 \phantom{0} \end{array}$ $10 \times 6 = 60$ $2 \times 6 = 12$ $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$	<p>④</p> $\begin{array}{r} 9 \phantom{0} \rightarrow 19 \\ 10 \phantom{0} \\ 3 \overline{)57} \\ \underline{30} \phantom{0} \\ 27 \phantom{0} \\ \underline{27} \phantom{0} \\ 0 \phantom{0} \end{array}$ $10 \times 3 = 30$ $9 \times 3 = 27$ $\begin{array}{r} 19 \\ \times 3 \\ \hline 57 \end{array}$
<p>⑤</p> $\begin{array}{r} 7 \phantom{0} \rightarrow 17 \text{ R}2 \\ 10 \phantom{0} \\ 4 \overline{)70} \\ \underline{40} \phantom{0} \\ 30 \phantom{0} \\ \underline{28} \phantom{0} \\ 2 \phantom{0} \end{array}$ $10 \times 4 = 40$ $7 \times 4 = 28$ $\begin{array}{r} 17 \\ \times 4 \\ \hline 68 \\ + 20 \\ \hline 70 \end{array}$	<p>⑥</p> $\begin{array}{r} 4 \phantom{0} \rightarrow 14 \text{ R}1 \\ 10 \phantom{0} \\ 6 \overline{)85} \\ \underline{60} \phantom{0} \\ 25 \phantom{0} \\ \underline{24} \phantom{0} \\ 1 \phantom{0} \end{array}$ $10 \times 6 = 60$ $4 \times 6 = 24$ $\begin{array}{r} 14 \\ \times 6 \\ \hline 84 \\ + 10 \\ \hline 85 \end{array}$

**Home Note:** Your child uses long division notation to solve division problems with and without remainders.