

Long Division:  
Using a Tiered  
Approach for  
Differentiation in a  
4th Grade Classroom

Brinkley Pound

Math330.28





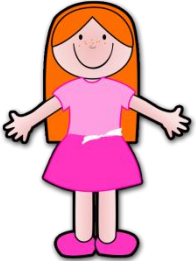
Dad

÷ Divide



Mom

X Multiply



Sister

— Subtract



Brother

↓ Bring Down



Rover

Ⓜ Repeat or Remainder

Step 1: Divide  $2 \overline{)57}$  **2** \*How many times will 2 go into 5?

Step 2: Multiply  $2 \overline{)57}$  **4** \*What is  $2 \times 2$ ?

Step 3: Subtract  $2 \overline{)57}$  **1** \*What is  $5 - 4$ ?

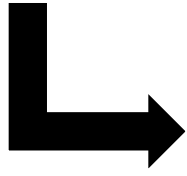
Step 4: Bring Down  $2 \overline{)57}$  **17** \*Bring down the next digit in the dividend. If you bring down, you MUST repeat steps 1, 2, 3 & 4.

Step 5: Repeat Or Remainder  $2 \overline{)57}$  **28 R1** \*When there are no more numbers to bring down, the number left over is the remainder.

Step 6: Check \*If your quotient (with remainder) equals the dividend, you are correct

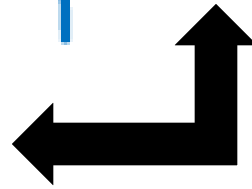
$28 \times 2 = 56$  (Quotient x divisor)  $\rightarrow$   $56 + 1 = 57$  (Add remainder)

Divisor



$$\begin{array}{r} 28 \text{ r } 1 \\ 2 \overline{) 57} \end{array}$$

Dividend



$$\begin{array}{r} 28 \text{ r } 1 \\ 2 \overline{) 57} \end{array}$$

Quotient



$$\begin{array}{r} 28 \text{ r } 1 \\ 2 \overline{) 57} \end{array}$$

# Basic Division Facts Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_

$$\begin{array}{r} \square \\ 3 \overline{) 9} \end{array}$$

$$\begin{array}{r} \square \\ 2 \overline{) 8} \end{array}$$

$$\begin{array}{r} \square \\ 5 \overline{) 15} \end{array}$$

$$\begin{array}{r} \square \\ 4 \overline{) 16} \end{array}$$

$$\begin{array}{r} \square \\ 6 \overline{) 24} \end{array}$$

$$\begin{array}{r} \square \\ 3 \overline{) 21} \end{array}$$

Check your work! Multiply the  
quotient by the divisor!

$$A. 3 \times \square = 9$$

$$B. 2 \times \square = 8$$

$$C. 5 \times \square = 15$$

$$D. 4 \times \square = 16$$

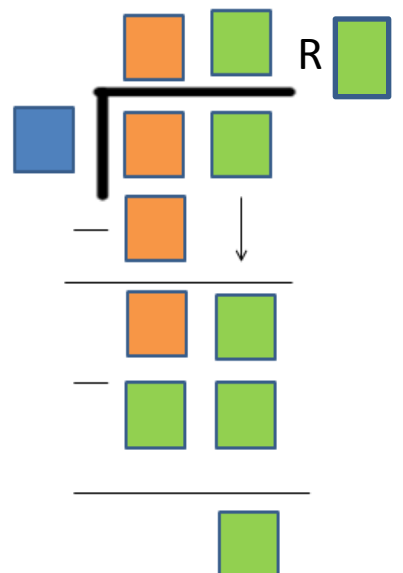
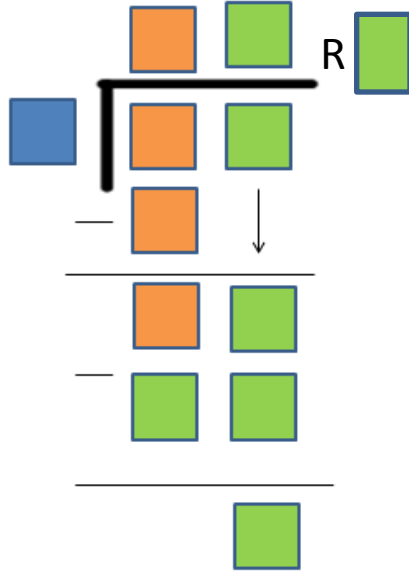
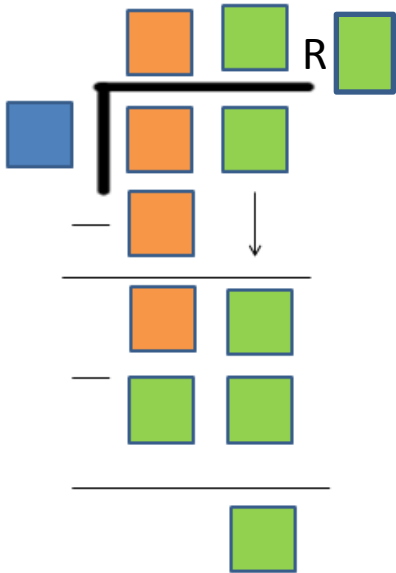
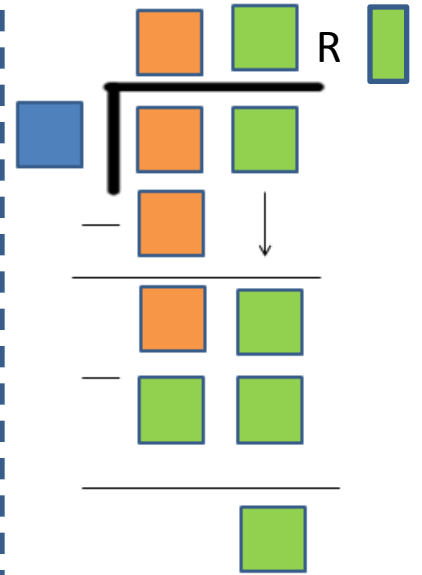
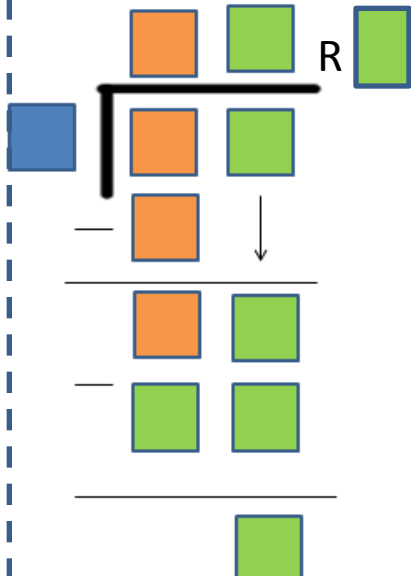
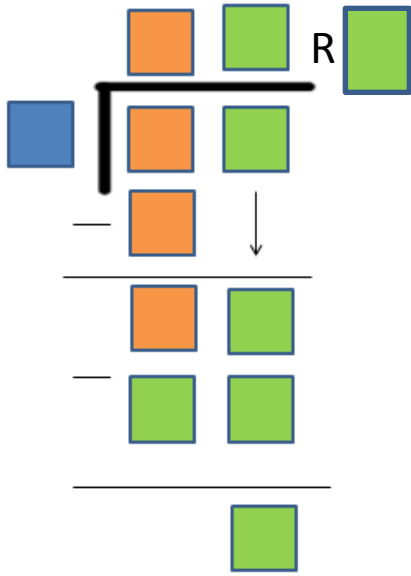
$$E. 6 \times \square = 24$$

$$F. 3 \times \square = 21$$



# 2 Digit/1 Digit with Remainders Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_



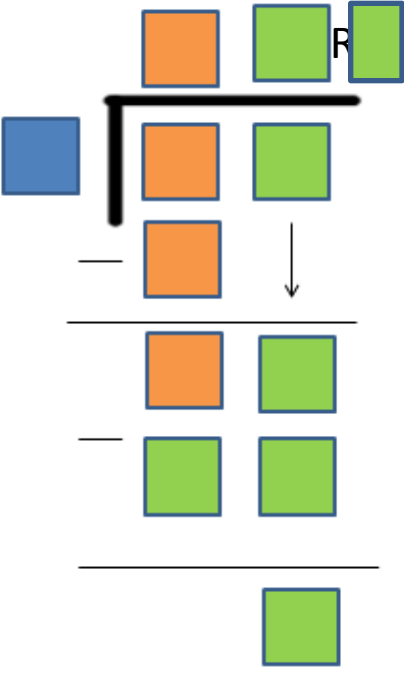
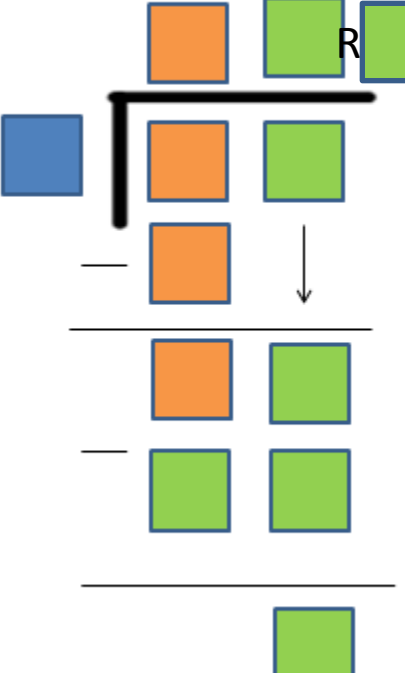
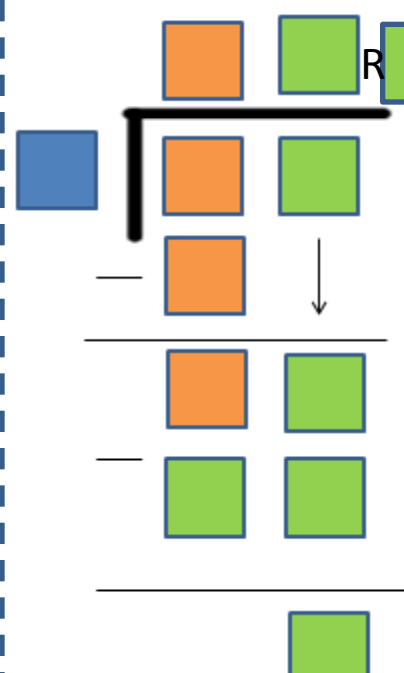
Check your work by multiplying on the back!  
 Don't forget to add the remainder 😊

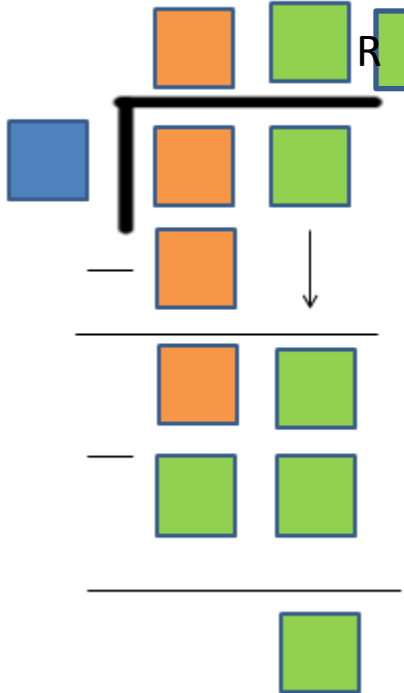
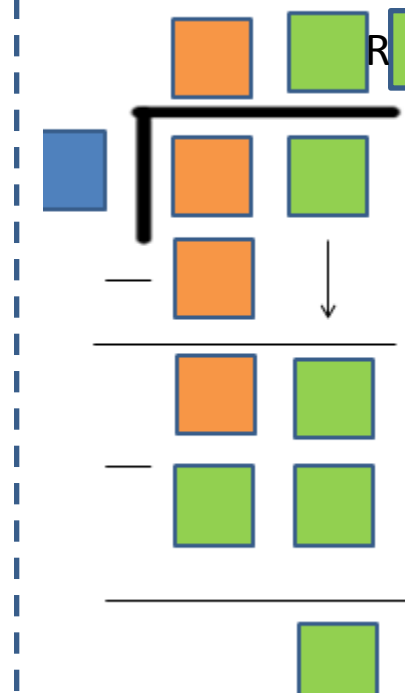
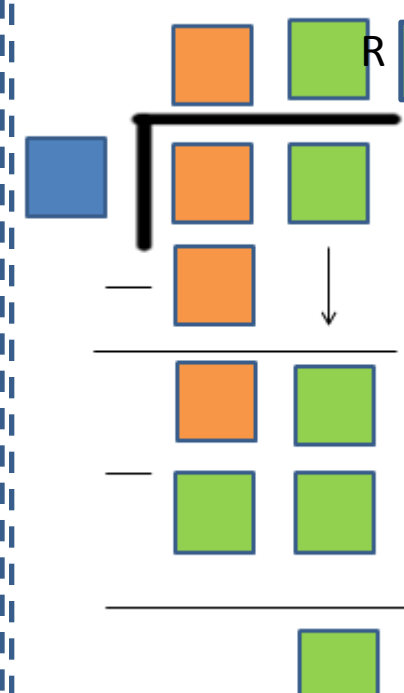




# 2 Digit/ 1 Digit Extra Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_

		
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# 2 Digit/ 1 Digit Extra Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_

□ □ R □  
□ □  
□ ↓  
□ □  
□ □  
□

□ □ R □  
□ □  
□ ↓  
□ □  
□ □  
□

□ □ R □  
□ □  
□ ↓  
□ □  
□ □  
□

□ □ R □  
□ □  
□ ↓  
□ □  
□ □  
□

□ □ R □  
□ □  
□ ↓  
□ □  
□ □  
□

□ □ R □  
□ □  
□ ↓  
□ □  
□ □  
□

# 3 Digit/1 Digit with Remainders Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_

$$\begin{array}{r}
 \phantom{0}1\phantom{0}2 \text{ R } \phantom{0} \\
 \underline{5 \overline{) 612}} \\
 5 \phantom{0} \\
 \phantom{0}1 \phantom{0} \\
 \underline{\phantom{0}1 \phantom{0}} \\
 \phantom{0}0 \phantom{0} \\
 \phantom{0}2 \\
 \underline{\phantom{0}1 \phantom{0}} \\
 \phantom{0}2
 \end{array}$$

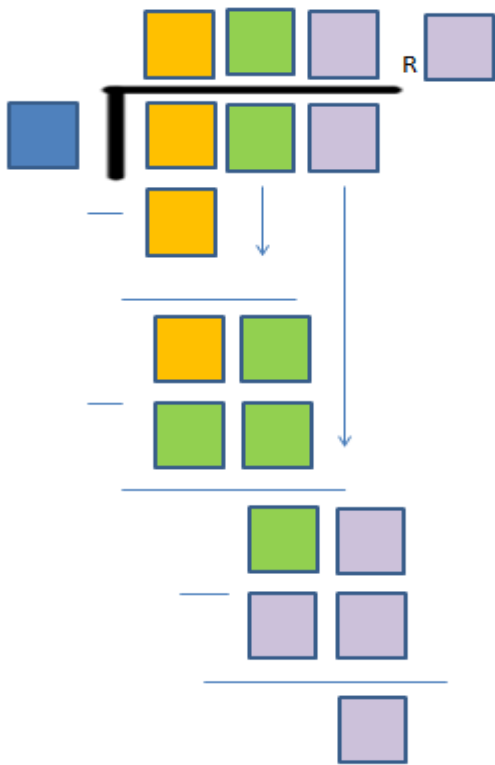
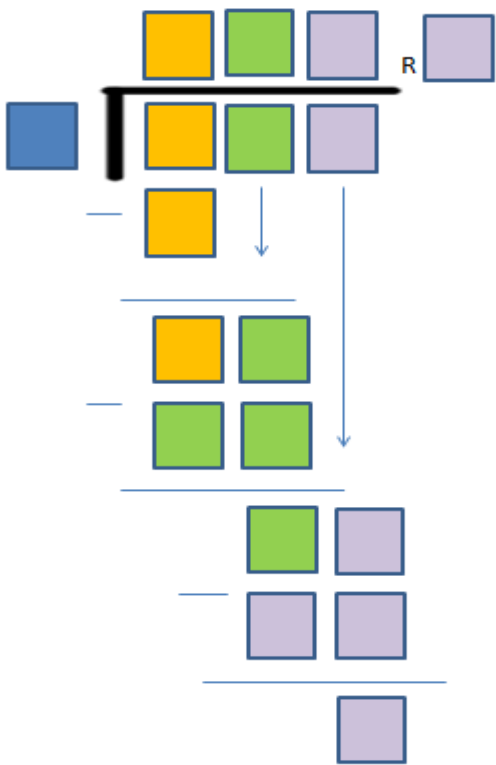
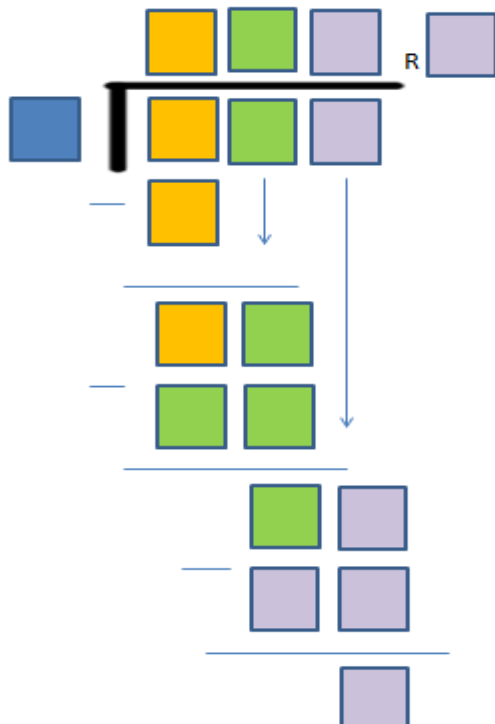
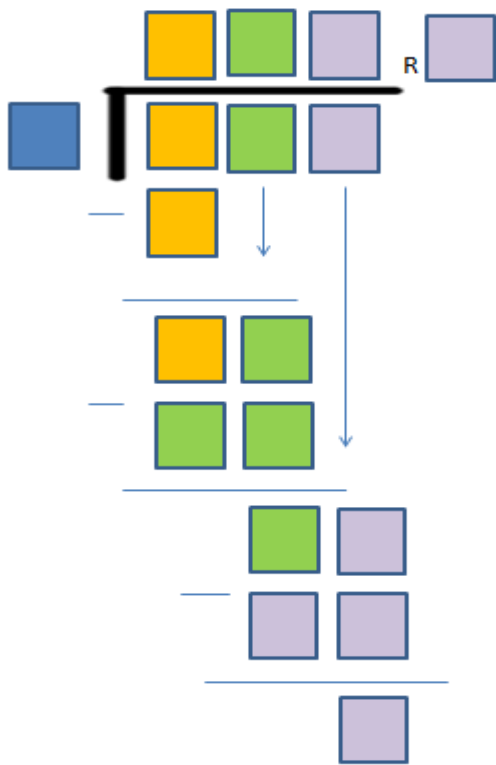
$$\begin{array}{r}
 \phantom{0}75 \text{ R } \phantom{0} \\
 \underline{3 \overline{) 827}} \\
 6 \phantom{0} \\
 \phantom{0}2 \phantom{0} \\
 \underline{\phantom{0}2 \phantom{0}} \\
 \phantom{0}0 \phantom{0} \\
 \phantom{0}5 \\
 \underline{\phantom{0}4 \phantom{0}} \\
 \phantom{0}2
 \end{array}$$

$$\begin{array}{r}
 \phantom{0}\phantom{0} \text{ R } \phantom{0} \\
 \underline{8 \overline{) 858}} \\
 \phantom{0} \phantom{0} \\
 \phantom{0}5 \phantom{0} \\
 \underline{\phantom{0}\phantom{0} \phantom{0}} \\
 \phantom{0}\phantom{0} \phantom{0} \\
 \underline{\phantom{0}5 \phantom{0}} \\
 \phantom{0} \phantom{0}
 \end{array}$$

$$\begin{array}{r}
 \phantom{0}\phantom{0}9 \text{ R } \phantom{0} \\
 \underline{4 \overline{) 317}} \\
 0 \phantom{0} \\
 \phantom{0}\phantom{0} \phantom{0} \\
 \underline{\phantom{0}\phantom{0} \phantom{0}} \\
 \phantom{0}\phantom{0} 7 \\
 \underline{\phantom{0}\phantom{0} \phantom{0}} \\
 \phantom{0} \phantom{0} 1
 \end{array}$$

# 3 Digit/1 Digit with Remainders Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_



# 3 Digit/1 Digit with Remainders Extra Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_

6

	□	□	□	R	□
	7	6	8		
-	□				
	□	□			
-	□	□			
	□	□			
-			□		
			□		
					□

3

	□	□	□	R	□
	9	1	8		
-	□				
	□	□			
-	□	□			
	□	□			
-			□		
			□		
					□

7

	□	□	□	R	□
	5	4	0		
-	□				
	□	□			
-	□	□			
	□	□			
-			□		
			□		
					□

5

	□	□	□	R	□
	8	2	7		
-	□				
	□	□			
-	□	□			
	□	□			
-			□		
			□		
					□

# 3 Digit/ 1 Digit with Remainders Extra Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**2**  $\overline{) \begin{array}{ccc} \square & \square & \square \\ 7 & 6 & 3 \\ \square & & \\ \hline \square & \square & \\ \square & \square & \\ \hline \square & \square & \\ \square & \square & \\ \hline \square & & \end{array}}$  R  $\square$

**8**  $\overline{) \begin{array}{ccc} \square & \square & \square \\ 5 & 2 & 3 \\ \square & & \\ \hline \square & \square & \\ \square & \square & \\ \hline \square & \square & \\ \square & \square & \\ \hline \square & & \end{array}}$  R  $\square$

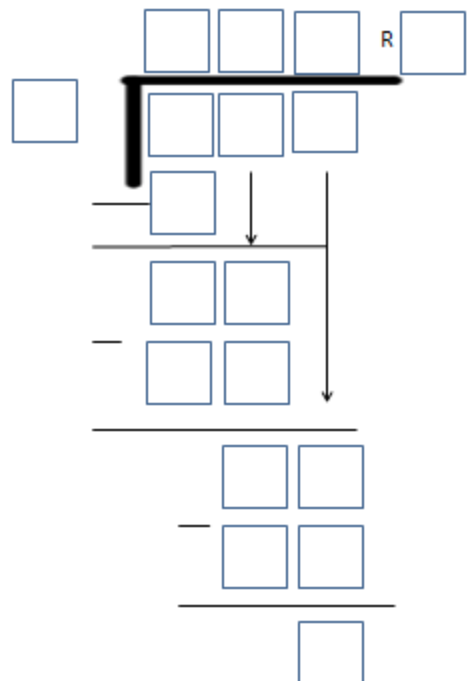
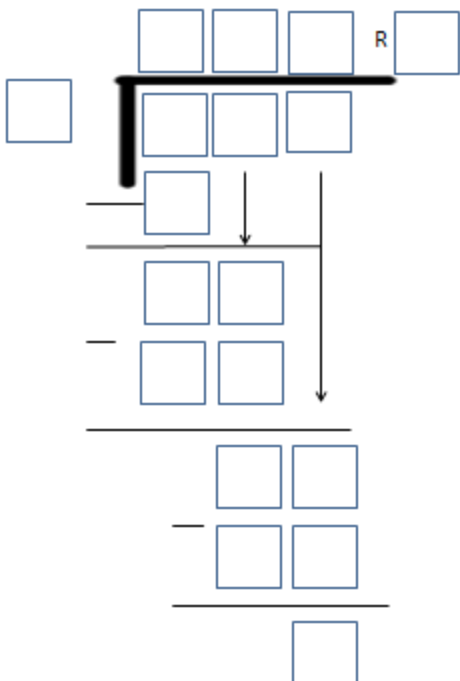
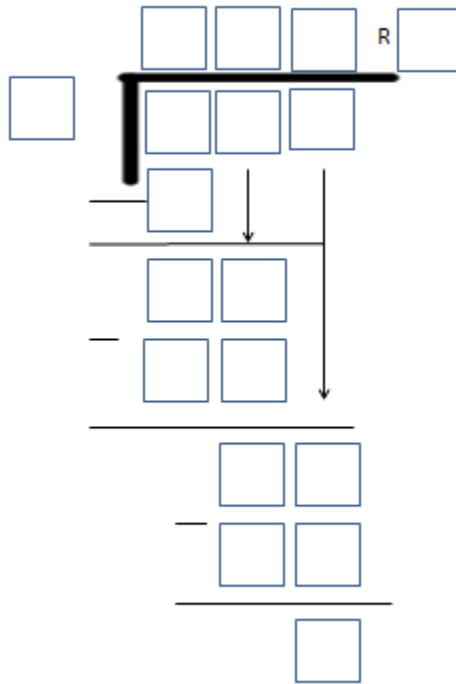
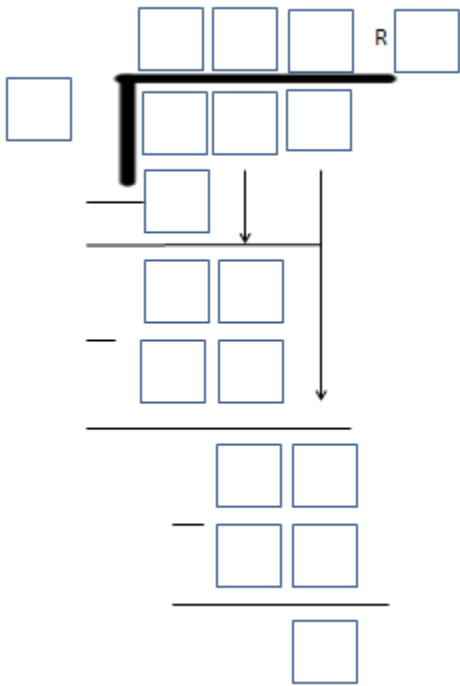
**4**  $\overline{) \begin{array}{ccc} \square & \square & \square \\ 9 & 9 & 4 \\ \square & & \\ \hline \square & \square & \\ \square & \square & \\ \hline \square & \square & \\ \square & \square & \\ \hline \square & & \end{array}}$  R  $\square$

**7**  $\overline{) \begin{array}{ccc} \square & \square & \square \\ 7 & 0 & 3 \\ \square & & \\ \hline \square & \square & \\ \square & \square & \\ \hline \square & \square & \\ \square & \square & \\ \hline \square & & \end{array}}$  R  $\square$



# 3 Digit/1 Digit with Remainders Extra Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_



# 4 Digit/1 Digit with Remainders Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_

6

1		9		R	
7	1	5	3		
1	1				
0	6				
		5			
		1			
			2		
			1		

8

0		9		R	
1	5	6	0		
		7			
		7	2		
				0	
			4		

5

		3		R	
9	1	9	2		
5					
1					
		4			
			2		

7

				R	0
3	6	1	2		
		3	5		
		1	1		
				7	

# 4 Digit/1 Digit with Remainders Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Diagram illustrating the division process using base ten blocks. The dividend is 3456 (3 hundreds, 4 tens, 5 ones, 6 ones) and the divisor is 3. The process shows the division of hundreds, tens, and ones, resulting in a quotient of 1152 and a remainder of 0.

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# 4 Digit/ 1 Digit Extra Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**6**

				R
	8	2	7	2
-				
-				
-				
-				
-				

**3**

				R
	9	2	0	0
-				
-				
-				
-				
-				

**7**

				R
	5	3	1	9
-				
-				
-				
-				
-				

**4**

				R
	7	0	4	4
-				
-				
-				
-				
-				



# 4 Digit/1 Digit Extra Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_

3

				R	
	5	1	0	4	
-					
-					
-					
-					

2

				R	
	3	0	1	7	
-					
-					
-					
-					

6

				R	
	3	6	7	8	
-					
-					
-					
-					

7

				R	
	3	6	7	1	
-					
-					
-					
-					

# 4 Digit/1 Digit Extra Practice

Name: \_\_\_\_\_ Date: \_\_\_\_\_

A subtraction problem template in a dashed box. It shows a 4-digit number minus a 4-digit number, with a remainder box labeled 'R'. Below the main problem are three smaller subtraction problems, each with a 2-digit number minus a 2-digit number, and a final single-digit box at the bottom.

A subtraction problem template in a dashed box, identical to the one in the top-left.

A subtraction problem template in a dashed box, identical to the one in the top-left.

A subtraction problem template in a dashed box, identical to the one in the top-left.

# Answer Key Page 1

## Page 4

- A. 3
- B. 4
- C. 3
- D. 4
- E. 4
- F. 7

## Page 5

$$53/3=17r1$$
$$62/5=12r2$$
$$48/7=6r6$$
$$61/6=10r1$$
$$53/2=26r1$$
$$91/8=11r3$$

## Page 7

$$87/5=17r2$$
$$43/3=14r1$$
$$75/4=18r3$$
$$71/8=8r7$$
$$36/5=7r1$$
$$82/4=20r2$$

## Page 9

$$92/7=13r1$$
$$83/6=13r5$$
$$49/8=6r1$$
$$33/5=6r3$$
$$76/7=10r6$$
$$59/3=19r2$$

## Page 11

$$612/5=122r2$$
$$827/3=275r2$$
$$858/8=107r2$$
$$317/4=79r1$$

## Page 13

$$768/6=128r0$$
$$918/3=306r0$$
$$540/7=77r1$$
$$827/5=165r2$$



## Answer Key Page 2

Page 14

$$763/2=381r1$$

$$523/8=65r3$$

$$994/4=248r2$$

$$703/7=100r3$$

Page 16

$$7153/6=1192r1$$

$$1560/8=195r0$$

$$9192/5=1838r2$$

$$3612/7=516r0$$

Page 18

$$8272/6=1378r4$$

$$9200/3=3066r2$$

$$5319/7=759r6$$

$$7044/4=1761r0$$

Page 20

$$5104/3=1701r1$$

$$3017/2=1508r1$$

$$3678/6=613r0$$

$$3671/7=524r3$$

# Long Division Exit Ticket

Name: \_\_\_\_\_

How is place value helpful when doing long division?

Name a strategy you used to help you solve the problems.

Explain how multiplication and division are related.