

Homework/Extension

Step 7: Divide with Remainders

Teaching note: We have included grids for short division and recommend that this resource is printed in colour or greyscale.

National Curriculum Objectives:

Mathematics Year 5: (5C7b) [Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Complete the comparison statement. No use of zero as a place holder and no exchanges. Short method of division supported by place value grid and showing grouping.

Expected Complete the comparison statement. Some use of zero as a place holder and includes up to two exchanges. Some pictorial support, for example place value counters to support with exchanging.

Greater Depth Complete the calculation to make the comparison statement correct. Use of zero as a place holder and including up to three exchanges, where some numbers within calculations are incomplete.

Questions 2, 5 and 8 (Varied Fluency)

Developing Complete the Carroll diagram. No use of zero as a place holder and no exchanges. Short method of division supported by suggestion of using a place value grid.

Expected Complete the Carroll diagram. Some use of zero as a place holder and includes up to two exchanges.

Greater Depth Complete the Carroll diagram. Use of zero as a place holder and includes up to three exchanges.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Identify the missing digits. No use of zero as a place holder and no exchanges.

Expected Identify the missing digits. Some use of zero as a place holder and includes up to two exchanges.

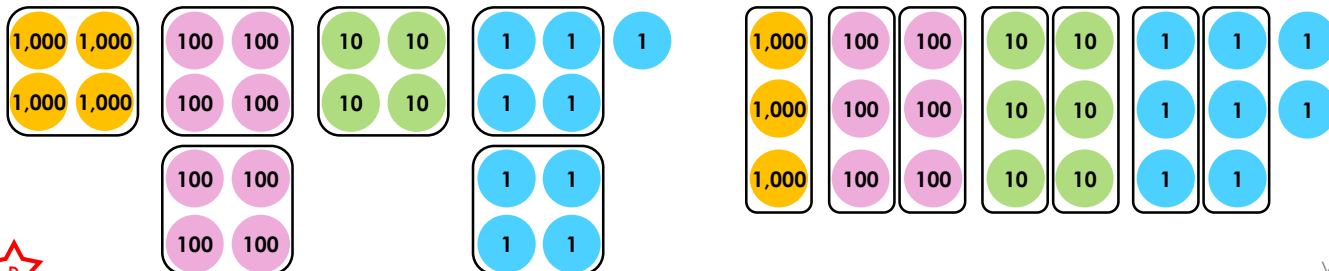
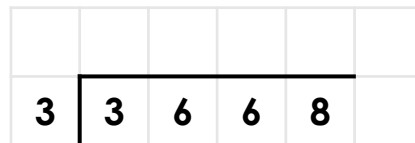
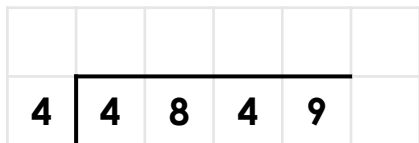
Greater Depth Identify the missing digits. Use of zero as a place holder and includes up to three exchanges. Remainders given as additional parameter.

More [Year 5 Multiplication and Division](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Divide with Remainders

1. Use $>$, $<$ or $=$ to complete the statement below.



VF
HW/Ext

2. Complete the Carroll diagram. Use place value counters to help you.

	Remainder of 1	Remainder of 2
Answer between 1,000 and 3,000		
Answer above 3,000		

$3,364 \div 3$

$4,486 \div 4$

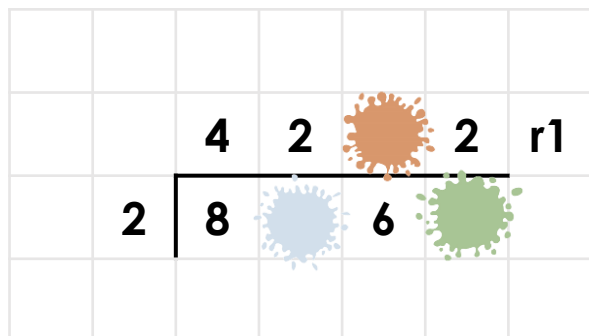
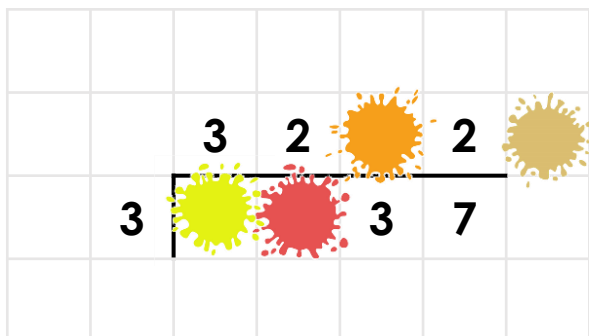
$6,425 \div 2$

$9,635 \div 3$



VF
HW/Ext

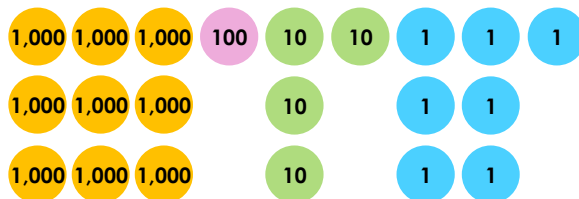
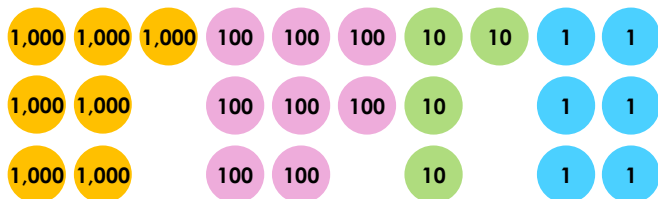
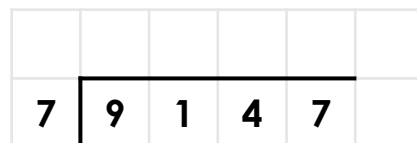
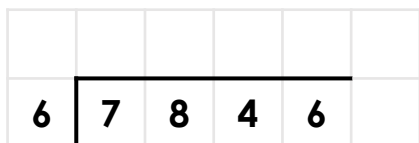
3. Find the missing digits.



RPS
HW/Ext

Divide with Remainders

4. Use $>$, $<$ or $=$ to complete the statement below.



VF
HW/Ext

5. Complete the Carroll diagram.

	Remainder of or between 1 and 3	Remainder of or between 4 and 7
Answer below 1,000		
Answer above 1,000		

$2,345 \div 3$

$5,696 \div 7$

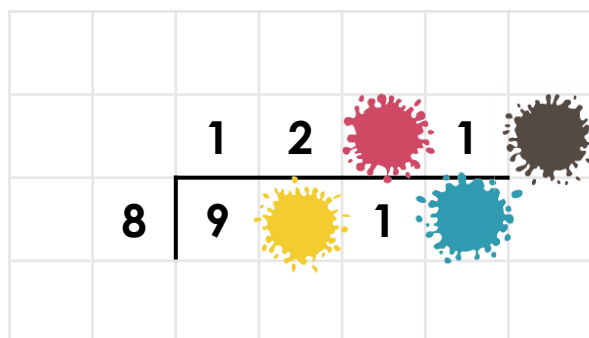
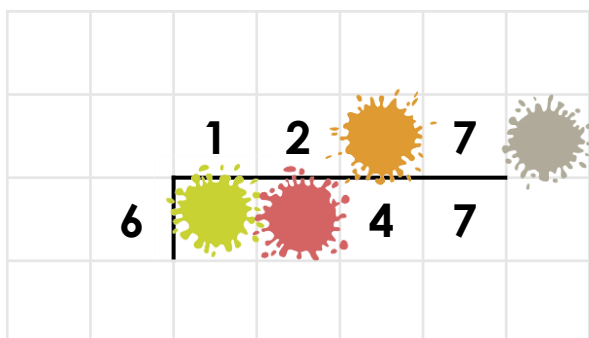
$6,609 \div 5$

$7,629 \div 6$



VF
HW/Ext

6. Find the missing digits.



RPS
HW/Ext

Homework/Extension Divide with Remainders

Developing

1. <

2.

	Remainder of 1	Remainder of 2
Answer between 1,000 and 3,000	$3,364 \div 3 = 1,121 \text{ r}1$	$4,486 \div 4 = 1,121 \text{ r}2$
Answer above 3,000	$6,425 \div 2 = 3,212 \text{ r}1$	$9,635 \div 3 = 3,211 \text{ r}2$

3.

		3	2	1	2
					r1
3		9	6	3	7

		4	2	3	2
					r1
2		8	4	6	5

Expected

4. >

5.

	Remainder of or between 1 and 3	Remainder of or between 4 and 7
Answer below 1,000	$2,345 \div 3 = 781 \text{ r}2$	$5,696 \div 7 = 813 \text{ r}5$
Answer above 1,000	$7,629 \div 6 = 1,271 \text{ r}3$	$6,609 \div 5 = 1,321 \text{ r}4$

6.

		1	2	0	7
					r5
6		7	2	4	7

		1	2	0	1
					r6
8		9	6	1	4

Greater Depth

7. $8,967 \div 8 = 1,120 \text{ r}7$

8.

	Remainder is a prime number	Remainder is a composite number
Answer below 1,000	$4,239 \div 6 = 706 \text{ r}3$	$4,524 \div 5 = 904 \text{ r}4$
Answer above 1,000	$8,486 \div 7 = 1,212 \text{ r}2$	$9,816 \div 9 = 1,201 \text{ r}6$

9. Various answers, for example:

		1	7	1	
					r5
9		1	5	4	4

		1	3	8	0
					r5
7		9	6	6	5