Varied Fluency
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:

Developing Questions to support dividing numbers with remainders. No use of zero as a place holder and no exchanges. Short method of division supported by place value grids showing grouping.
Expected Questions to support dividing numbers with remainders. Some use of zero as a place holder and including up to two exchanges. Pictorial support for some questions, for example place value counters to support with exchanging.
Greater Depth Questions to support dividing numbers with remainders. Use of zero as a place holder and including up to three exchanges, where some numbers within calculations are incomplete.

More Year 5 Multiplication and Division resources.

Did you like this resource? Don't forget to review it on our website.

Divide with Remainders

1a. Match the question to the correct answer.

3,665 ÷ 3

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000	100 100 100 100 100 100	10 10 10 10 10 10	1 1 1 1 1

D

1,664 r3 | 1,222 r1 | 1,221 r2

VF

1b. Match the question to the correct answer.

2,463 ÷ 2

Thousands	Hundreds	Tens	Ones
1,000 1,000	100 100 100 100	10 10 10 10 10 10	1 1 1

D

2,462 r1 | 1,231 r1 | 1,230 r3

VF

2a. True or false? The answer to the calculation below has a remainder.

4,844 ÷ 4

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000 1,000	100 100 100 100 100 100 100 100	10 10 10 10	1 1 1 1

D

VF

2b. True or false? The answer to the calculation below has a remainder.

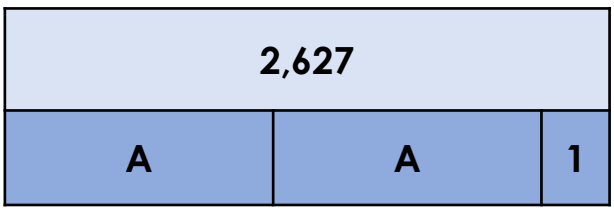
6,335 ÷ 3

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000 1,000 1,000 1,000	100 100 100	10 10 10	1 1 1 1 1

D

VF

3a. Calculate the value of A.



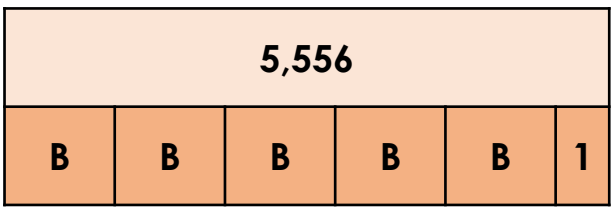
1,000 100 100 100 10 1 1 1 1
1,000 100 100 100 10 1 1 1

D

2

VF

3b. Calculate the value of B.



1,000 1,000 1,000 100 100 10 10 10 1 1
1,000 1,000 100 100 100 10 10 1 1 1
1

D

5

VF

Divide with Remainders

4a. Match the question to the correct answer.

6,463 ÷ 6

Thousands	Hundreds	Tens	Ones
1,000 1,000	100 100	10 10	1 1
1,000 1,000	100 100	10 10	1
1,000 1,000		10 10	

1,077 r1 | 1,106 r3 | 1,077 r3

VF

Divide with Remainders

4b. Match the question to the correct answer.

5,452 ÷ 5

Thousands	Hundreds	Tens	Ones
1,000 1,000	100 100	10 10	1 1
1,000 1,000	100 100	10 10	
1,000		10	

1,092 r1 | 1,090 r2 | 1,900 r2

VF

5a. True or false? The answer to the calculation below has a remainder.

8,832 ÷ 8

Thousands	Hundreds	Tens	Ones
1,000 1,000	100 100	10 10	1 1
1,000 1,000	100 100	10	1 1
1,000 1,000	100 100		
1,000 1,000	100 100		

VF

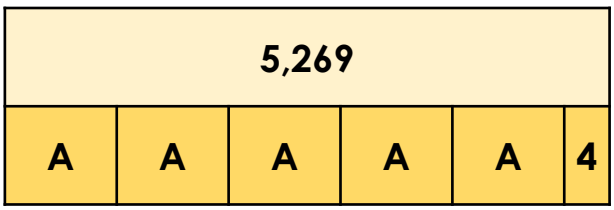
5b. True or false? The answer to the calculation below has a remainder.

7,234 ÷ 7

Thousands	Hundreds	Tens	Ones
1,000 1,000	100 100	10 10	1 1
1,000 1,000			1 1
1,000 1,000			
1,000			

VF

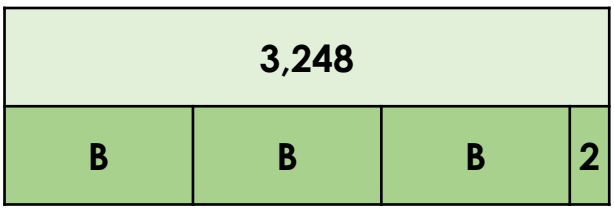
6a. Calculate the value of A.



5

VF

6b. Calculate the value of B.



3

VF

Divide with Remainders

7a. Match the question to the correct answer.

A. 6,376 ÷ 7		754 r4
B. 4,528 ÷ 6		1,820 r3
C. 7,283 ÷ 4		910 r6

GD VF

Divide with Remainders

7b. Match the question to the correct answer.

A. 5,465 ÷ 9		444 r2
B. 2,848 ÷ 5		607 r2
c. 3,554 ÷ 8		569 r3

GD VF

8a. Complete the calculation so that it has a remainder of 1.

	□	1	0	7	r1
9	9	□	6	□	

GD VF

8b. Complete the calculation so that it has a remainder of 4.

		5	□	9	r4
7	3	□	6	□	

GD VF

9a. When divided, the number below has a remainder of 1. What was it divided by?

8,476

GD VF

9b. When divided, the number below has a remainder of 1. What was it divided by?

8,119

GD VF

Varied Fluency
Divide with Remainders

Developing

1a. 1,221 r2

2a. False. The answer is 1,211.

3a. A = 1,313

Expected

4a. 1,077 r1

5a. False. The answer is 1,104.

6a. A = 1,053

Greater Depth

7a. A. 910 r6; B. 754 r4; C. 1,820 r3

8a. 9,964 ÷ 9 = 1,107 r1

9a. 8,476 ÷ 5 = 1,695 r1

Varied Fluency
Divide with Remainders

Developing

1b. 1,231 r1

2b. True. The answer is 2,111 r2.

3b. B = 1,111

Expected

4b. 1,090 r2

5b. True. The answer is 1,033 r3.

6b. B = 1,082

Greater Depth

7b. A. 607 r2; B 569 r3; C. 444 r2

8b. 3,567 ÷ 7 = 509 r4

9b. 8,119 ÷ 3 = 2706 r1 or 8,119 ÷ 9 = 902 r1