Varied Fluency
Step 7: Divide with Remainders

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 using known facts from 2, 3 and 5 times tables. Up to one exchange.

Expected Questions to support dividing numbers with remainders using known facts from 4,6 and 8 times tables. Up to two exchanges.

Greater Depth Questions to support dividing numbers with remainders using known facts from 7 and 9 times tables. Up to three exchanges.

More resources which follow the same small steps as White Rose.

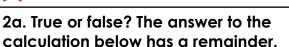## Did you like this resource? Don't forget to review it on our website.

Divide with Remainders

Divide with Remainders

1a. Match the questions to the correct answer.

a. 2,547 ÷ 2   **712 r1**

b. 2,137 ÷ 3   **1,273 r1**

c. 4,524 ÷ 5   **904 r4**

VF

1b. Match the questions to the correct answer.

a. 4,613 ÷ 2   **1,040 r1**

b. 5,201 ÷ 5   **1,145 r2**

c. 3,437 ÷ 3   **2,306 r1**

VF

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

$$2,557 ÷ 5$$

VF

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

$$1,243 ÷ 2$$

VF

3a. The missing number is the same as the remainder. What is the missing number?

1 0 ☐ 1 r ☐

5 | 5 2 0 9

VF

3b. The missing number is the same as the remainder. What is the missing number?

2 1 3 ☐ r ☐

2 | 4 2 6 3

VF

4a. Calculate the value of A.

3,125			
A	A	A	2

VF

4b. Calculate the value of B.

3,627					
B	B	B	B	B	2

VF

Varied Fluency – Divide with Remainders – Year 5 Developing

Divide with Remainders

5a. Match the questions to the correct answer.

a. 2,463 ÷ 6 | 1,031 r3 |

b. 4,127 ÷ 4 | 311 r1 |

c. 2,489 ÷ 8 | 410 r3 |

☆ E   VF

6a. True or false? The answer to the calculation below has a remainder.

$$2,467 \div 6$$

☆ E   VF

7a. The missing number is the same as the remainder. What is the missing number?

☐ 0 4 1 r ☐

6 | 6 2 4 7

☆ E   VF

8a. Calculate the value of A.

1,269
A	A	A	A	A	A	3

☆ E   VF

Divide with Remainders

5b. Match the questions to the correct answer.

a. 3,289 ÷ 8 | 703 r1 |

b. 3,667 ÷ 6 | 411 r1 |

c. 2,813 ÷ 4 | 611 r1 |

☆ E   VF

6b. True or false? The answer to the calculation below has a remainder.

$$2,224 \div 4$$

☆ E   VF

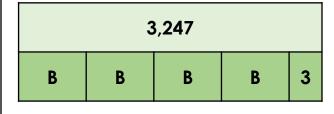**7b.** The missing number is the same as the remainder. What is the missing number?

1 ☐ 0 2 r ☐

8 | 9 6 1 8

☆ E   VF

8b. Calculate the value of B.

3,247
B	B	B	B	3

☆ E   VF

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Varied Fluency – Divide with Remainders – Year 5 Expected

Divide with Remainders

9a. Match the questions to the correct answer.

a. 6,376 ÷ 7 | 503 r1

b. 4,528 ÷ 9 | 809 r2

c. 7,283 ÷ 9 | 910 r6

VF

Divide with Remainders

9b. Match the questions to the correct answer.

a. 5,465 ÷ 9 | 507 r5

b. 2,848 ÷ 7 | 607 r2

c. 3,554 ÷ 7 | 406 r6

VF

10a. True or false? The answer to the calculation below has a remainder.

$$8,172 ÷ 9$$

VF

10b. True or false? The answer to the calculation below has a remainder.

$$3,875 ÷ 7$$

VF

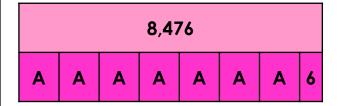**11a.** The missing number is the same as the remainder. What is the missing number?

0 8 ☐ ☐ r ☐

7 | 5 8 3 4

VF

11b. The missing number is the same as the remainder. What is the missing number?

☐ ☐ 0 7 r ☐

9 | 9 9 6 4

VF

12a. Calculate the value of A.

8,476							
A	A	A	A	A	A	A	6

VF

12b. Calculate the value of B.

8,117									
B	B	B	B	B	B	B	B	B	8

VF

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Varied Fluency – Divide with Remainders – Year 5 Greater Depth

Varied Fluency
Divide with Remainders

Developing

1a. 2,547 ÷ 2 = 1,273 r1; 2,137 ÷ 3 = 712 r1
4,524 ÷ 5 = 904 r4
2a. True. The answer is 511 r2.
3a. 4
4a. A = 1,041

Expected

5a. 2,463 ÷ 6 = 410 r3; 4,127 ÷ 4 = 1,031 r3
2,489 ÷ 8 = 311 r1
6a. True. The answer is 411 r1.
7a. 1
8a. A = 211

Greater Depth

9a. 6,373 ÷ 7 = 910 r6; 4,528 ÷ 9 = 503 r1
7,283 ÷ 9 = 809 r2
10a. False. The answer is 908.
11a. 3
12a. 1,210

Varied Fluency
Divide with Remainders

Developing

1b. 4,613 ÷ 2 = 2,306 r1
5,201 ÷ 5 = 1,040 r1; 3,437 ÷ 5 = 1,145 r2
2b. True. The answer is 621 r1.
3b. 1
4b. B = 725

Expected

5b. 3,289 ÷ 8 = 411 r1; 3,667 ÷ 6 = 611 r1
2,813 ÷ 4 = 703 r1
6b. False. The answer is 556.
7b. 2
8b. B = 811

Greater Depth

9b. 5,465 ÷ 9 = 607 r2; 2,848 ÷ 7 = 406 r6
3,554 ÷ 7 = 507 r5
10b. True. The answer is 553 r4.
11b. 1
12b. 901

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