

Varied Fluency

Step 11: 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 [Year 5 and Year 6 Multiplication and Division](#) resources.

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. $2,547 \div 2$

712 r1

b. $2,137 \div 3$

1,273 r1

c. $4,524 \div 5$

904 r4



5 VF

1b. Match the questions to the correct answer.

a. $4,613 \div 2$

1,040 r1

b. $5,201 \div 5$

1,145 r2

c. $3,437 \div 3$

2,306 r1



5 VF

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

$$2,557 \div 5$$



5 VF

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

$$1,243 \div 2$$



5 VF

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

$$\begin{array}{r} 10 \square 1 \text{ r } \square \\ 5 \overline{) 5209} \end{array}$$



5 VF

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

$$\begin{array}{r} 213 \square \text{ r } \square \\ 2 \overline{) 4263} \end{array}$$



5 VF

4a. Calculate the value of A.

3,125			
A	A	A	2



5 VF

4b. Calculate the value of B.

3,627					
B	B	B	B	B	2



5 VF

Divide with Remainders

Divide with Remainders

5a. Match the questions to the correct answer.

a. $2,463 \div 6$

1,031 r3

b. $4,127 \div 4$

311 r1

c. $2,489 \div 8$

410 r3



5 VF

5b. Match the questions to the correct answer.

a. $3,289 \div 8$

703 r1

b. $3,667 \div 6$

411 r1

c. $2,813 \div 4$

611 r1



5 VF

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

$$2,467 \div 6$$



5 VF

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

$$2,224 \div 4$$



5 VF

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

$$\begin{array}{r} \square 041 \text{ r } \square \\ 6 \overline{) 6247} \end{array}$$



5 VF

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

$$\begin{array}{r} 1 \square 02 \text{ r } \square \\ 8 \overline{) 9618} \end{array}$$



5 VF

8a. Calculate the value of A.

1,269						
A	A	A	A	A	A	3



5 VF

8b. Calculate the value of B.

3,247				
B	B	B	B	3



5 VF

Divide with Remainders

9a. Match the questions to the correct answer.

a. $6,376 \div 7$

503 r1

b. $4,528 \div 9$

809 r2

c. $7,283 \div 9$

910 r6



5 VF

Divide with Remainders

9b. Match the questions to the correct answer.

a. $5,465 \div 9$

507 r5

b. $2,848 \div 7$

607 r2

c. $3,554 \div 7$

406 r6



5 VF

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

$$8,172 \div 9$$



5 VF

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

$$3,875 \div 7$$



5 VF

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

$$\begin{array}{r} 08 \square \square r \square \\ 7 \overline{) 5834} \end{array}$$



5 VF

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

$$\begin{array}{r} \square \square 07 r \square \\ 9 \overline{) 9964} \end{array}$$



5 VF

12a. Calculate the value of A.

8,476							
A	A	A	A	A	A	A	6



5 VF

12b. Calculate the value of B.

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



5 VF

Varied Fluency Divide with Remainders

Developing

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

Expected

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

Greater Depth

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

Varied Fluency Divide with Remainders

Developing

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

Expected

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

Greater Depth

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