Varied Fluency
Step 6: Divide 4 Digits by 1 Digit

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 4-digit numbers by 1 digit. 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 4-digit numbers by 1 digit. Some use of zero as a place holder and including up to two exchanges. Pictorial support for some questions, for example PV counters to support exchanging.
Greater Depth Questions to support dividing 4-digit numbers by 1 digit. 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 4 Digits by 1 Digit

Divide 4 Digits by 1 Digit

1a. True or false? 3,963 ÷ 3 = 1,321

3	3	9	6	3

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

D VF

1b. True or false? 4,624 ÷ 2 = 2,302

2	4	6	2	4

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

D VF

2a. Complete the calculation.

2,448 ÷ 2 = ☐

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

100 100 | 10 10 | 1 1 | 1 1

D VF

2b. Complete the calculation.

6,396 ÷ 3 = ☐

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

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

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

D VF

3a. The missing numbers are all equal. Complete the part-whole model.

4,844

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

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

D VF

3b. The missing numbers are all equal. Complete the part-whole model.

9,363

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

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

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

D VF

Divide 4 Digits by 1 Digit

4a. True or false? 4,812 ÷ 4 = 1, 200

4	4	8	1	2

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

E VF

Divide 4 Digits by 1 Digit

4b. True or false? 3,726 ÷ 3 = 1,242

3	3	7	2	6

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

E VF

5a. Complete the calculation.

2,406 ÷ 6 = ☐

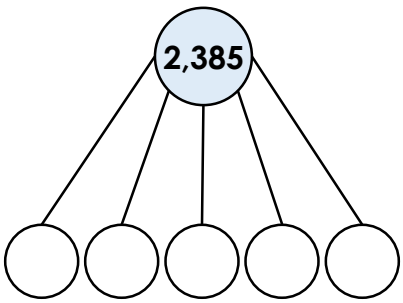
E VF

5b. Complete the calculation.

8,816 ÷ 8 = ☐

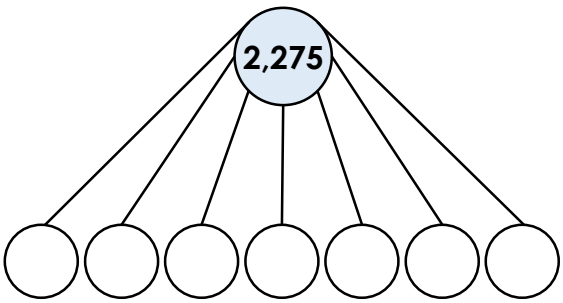
E VF

6a. The missing numbers are all equal. Complete the part-whole model.



E VF

6b. The missing numbers are all equal. Complete the part-whole model.



E VF

Divide 4 Digits by 1 Digit

7a. True or false? 6,309 ÷ 9 = 709
Use place value counters to help you.

9 | 6 3 0 9

Thousands	Hundreds	Tens	Ones

GD VF

8a. Complete the calculation by finding the missing digits.

5 ☐ 0 7 ÷ 7 = 8 ☐ ☐

GD VF

9a. Complete the statement using the digit cards to give answers that are whole numbers.

8 5 6 ☐ ÷ 8 < 8 5 ☐ 6 ÷ 6

8 0

GD VF

Divide 4 Digits by 1 Digit

7b. True or false? 4,270 ÷ 7 = 610
Use place value counters to help you.

7 | 4 2 7 0

Thousands	Hundreds	Tens	Ones

GD VF

8b. Complete the calculation by finding the missing digits.

4 ☐ 7 2 ÷ 9 = 5 ☐ ☐

GD VF

9b. Complete the statement using the digit cards to give answers that are whole numbers.

7 3 ☐ 8 ÷ 4 > 9 3 ☐ 4 ÷ 6

5 6

GD VF

Varied Fluency
Divide 4 Digits by 1 Digit

Developing

1a. True

2a. 1,224

3a. 2,422

Expected

4a. False, 4,812 ÷ 4 = 1,203

5a. 401

6a. 477

Greater Depth

7a. False, 6,409 ÷ 9 = 701

8a. 5,607 ÷ 7 = 801

9a. 8,560 ÷ 8 = 1,070 < 8,586 ÷ 6 = 1,431

Varied Fluency
Divide 4 Digits by 1 Digit

Developing

1b. False, 4,624 ÷ 2 = 2,312

2b. 2,132

3b. 3,121

Expected

4b. True

5b. 1,102

6b. 325

Greater Depth

7b. True

8b. 4,572 ÷ 9 = 508

9b. 7,368 ÷ 4 = 1,842 > 9,354 ÷ 6 = 1,559