Varied Fluency
Step 5: Long Division 1

Teaching Note:

All questions that include long division already written out have an example of expanded method and formal method questions.

National Curriculum Objectives:

Mathematics Year 6: (6C7c) Divide numbers up to 4 digits by a 2-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding as appropriate for the context
Mathematics Year 6: (6C8) Solve problems involving addition, subtraction, multiplication and division

Differentiation:

Developing Complete long division calculations using expanded and formal methods to divide 3-digit numbers by a 2-digit number no greater than 20. Key multiplication facts given. No remainders.
Expected Complete long division calculations using expanded and formal methods to divide 3-digit numbers by a 2-digit number. Key multiplication facts grid partially completed. No remainders.
Greater Depth Complete long division calculations using expanded and formal methods to divide 3-digit numbers by a 2-digit number. No key multiplication facts grids given. No remainders.

More Year 6 Four Operations resources.

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Long Division 1

1a. Find the multiples and complete the long division calculation.

1	2	2	2	8		
	−	1	2	0	(x	)
		1	1 0	8		
	−		6	0	(x	)
			4	8		
		−	4	8	(x	)
				0		

Key facts

1 x 1 2 =	1 2
2 x 1 2 =	2 4
3 x 1 2 =	3 6
4 x 1 2 =	4 8
5 x 1 2 =	6 0
1 0 x 1 2 =	1 2 0

D

VF

Long Division 1

1b. Find the multiples and complete the long division calculation.

1	5	2	5	5
	−	1	5	↓
		1	0	5
	−	1	0	5
				0

Key facts

1 x 1 5 =	1 5
2 x 1 5 =	3 0
3 x 1 5 =	4 5
4 x 1 5 =	6 0
5 x 1 5 =	7 5
1 0 x 1 5 =	1 5 0

D

VF

2a. True or false?

			1	7		
1	1	1	8	7		
	−	1	1	0	(x 10)	
			7	7		
	−		5	5	(x 5)	
			2	2		
			2	2	(x 2)	
				0		

Key facts

1 x 1 1 =	1 1
2 x 1 1 =	2 2
3 x 1 1 =	3 3
4 x 1 1 =	4 4
5 x 1 1 =	5 5
1 0 x 1 1 =	1 1 0

D

VF

2b. True or false?

		0	1	2	
1	2	2	1 0	4	
	−	1	2	↓	
		0	2	4	
	−		2	4	
				0	

Key facts

1 x 1 2 =	1 2
2 x 1 2 =	2 4
3 x 1 2 =	3 6
4 x 1 2 =	4 8
5 x 1 2 =	6 0
1 0 x 1 2 =	1 2 0

D

VF

3a. Use long division to find the correct answer.

195 ÷ 13 =

13 **15** **16**

Key facts

1 x 1 3 =	1 3
2 x 1 3 =	2 6
3 x 1 3 =	3 9
4 x 1 3 =	5 2
5 x 1 3 =	6 5
1 0 x 1 3 =	1 3 0

D

VF

3b. Use long division to find the correct answer.

209 ÷ 11 =

14 **16** **19**

Key facts

1 x 1 1 =	1 1
2 x 1 1 =	2 2
3 x 1 1 =	3 3
4 x 1 1 =	4 4
5 x 1 1 =	5 5
1 0 x 1 1 =	1 1 0

D

VF

4a. Using long division, find which calculation gives an odd answer.

A. 204 ÷ 12 =

B. 168 ÷ 12 =

Key facts

1 x 1 2 =	1 2
2 x 1 2 =	2 4
3 x 1 2 =	3 6
4 x 1 2 =	4 8
5 x 1 2 =	6 0
1 0 x 1 2 =	1 2 0

D

VF

4b. Using long division, find which calculation gives an even answer.

A. 285 ÷ 15 =

B. 210 ÷ 15 =

Key facts

1 x 1 5 =	1 5
2 x 1 5 =	3 0
3 x 1 5 =	4 5
4 x 1 5 =	6 0
5 x 1 5 =	7 5
1 0 x 1 5 =	1 5 0

D

VF

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Long Division 1

5a. Find the multiples and complete the long division calculation.

1	3	2	9	9		
	−	1	3	0	(x	)
		1	6	9		
	−	1	3	0	(x	)
			3	9		
		−	3	9	(x	)
				0		

Key facts

2 x 1 3 =	2 6
5 x 1 3 =	6 5
1 0 x 1 3 =	1 3 0
2 0 x 1 3 =	2 6 0

E

VF

5b. Find the multiples and complete the long division calculation.

1	2	4	6	8	
	−	3	6	↓	
		1	0	8	
	−	1	0	8	
				0	

Key facts

2 x 1 2 =	2 4
5 x 1 2 =	6 0
1 0 x 1 2 =	1 2 0
2 0 x 1 2 =	2 4 0

E

VF

6a. True or false?

			1	4		
1	5	2	7	0		
	−	1	5	0	(x 10)	
		~~1~~	^{1}2	0		
	−		6	0	(x 4)	
			6	0		
		−	6	0	(x 4)	
				0		

Key facts

2 x 1 5 =	3 0
5 x 1 5 =	7 5
1 0 x 1 5 =	1 5 0
2 0 x 1 5 =	3 0 0

E

VF

6b. True or false?

		0	1	8	
1	7	~~^{2}3~~	^{1}0	6	
	−	1	7	↓	
		1	3	6	
	−	1	3	6	
				0	

Key facts

2 x 1 7 =	3 4
5 x 1 7 =	8 5
1 0 x 1 7 =	1 7 0
2 0 x 1 7 =	3 4 0

E

VF

7a. Use long division to find the correct answer.

576 ÷ 16 =

37 **38** **36**

Key facts

2 x 1 6 =	3 2
5 x 1 6 =	8 0
1 0 x 1 6 =	1 6 0
2 0 x 1 6 =	3 2 0

E

VF

7b. Use long division to find the correct answer.

350 ÷ 14 =

25 **27** **24**

Key facts

2 x 1 4 =	2 8
5 x 1 4 =	7 0
1 0 x 1 4 =	1 4 0
2 0 x 1 4 =	2 8 0

E

VF

8a. Using long division, find which calculation gives an odd answer.

A. 216 ÷ 12 =

Key facts

2 x 1 2 =	2 4
5 x 1 2 =	6 0
1 0 x 1 2 =	1 2 0
2 0 x 1 2 =	2 4 0

B. 182 ÷ 14 =

Key facts

2 x 1 4 =	2 8
5 x 1 4 =	7 0
1 0 x 1 4 =	1 4 0
2 0 x 1 4 =	2 8 0

E

VF

8b. Using long division, find which calculation gives an even answer.

A. 272 ÷ 16 =

Key facts

2 x 1 6 =	3 2
5 x 1 6 =	8 0
1 0 x 1 6 =	1 6 0
2 0 x 1 6 =	3 2 0

B. 286 ÷ 13 =

Key facts

2 x 1 3 =	2 6
5 x 1 3 =	6 5
1 0 x 1 3 =	1 3 0
2 0 x 1 3 =	2 6 0

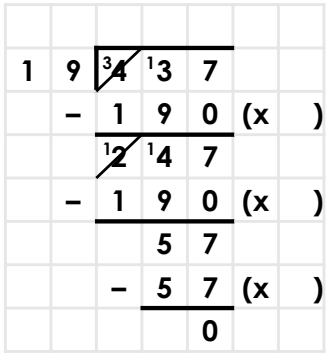
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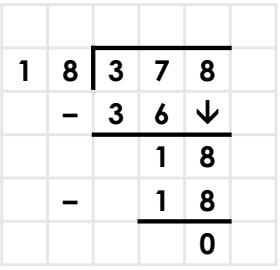
Long Division 1

9a. Find the multiples and complete the long division calculation.



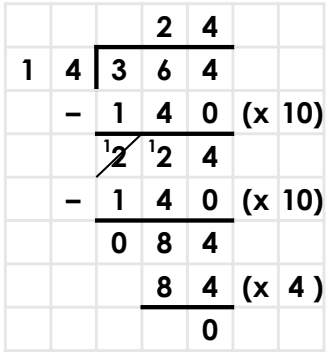
GD VF

9b. Find the multiples and complete the long division calculation.



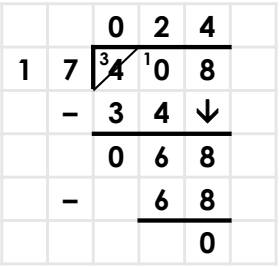
GD VF

10a. True or false?



GD VF

10b. True or false?



GD VF

11a. Use long division to find the correct answer.

490 ÷ 14 =

35	37	39

GD VF

11b. Use long division to find the correct answer.

468 ÷ 18 =

25	26	28

GD VF

12a. Using long division, find which calculation gives an odd answer.

A. 608 ÷ 16 =

B. 612 ÷ 12 =

GD VF

12b. Using long division, find which calculation gives an even answer.

A. 493 ÷ 17 =

B. 704 ÷ 16 =

GD VF

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Long Division 1

Developing
1a. 228 ÷ 12 = 19. Multiples given as 10, 5 and 4
2a. True
3a. 15
4a. A

Expected
5a. 299 ÷ 13 = 23. Multiples given as 10, 10 and 3
6a. False, 270 ÷ 15 = 18
7a. 36
8a. B

Greater Depth
9a. 437 ÷ 19 = 23. Multiples given as 10, 10 and 3
10a. False, 364 ÷ 14 = 26
11a. 35
12a. B

Varied Fluency
Long Division 1

Developing
1b. 255 ÷ 15 = 17
2b. False, 204 ÷ 12 = 17
3b. 19
4b. B

Expected
5b. 468 ÷ 12 = 39
6b. True
7b. 25
8b. B

Greater Depth
9b. 378 ÷ 18 = 21
10b. True
11b. 26
12b. B

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