Varied Fluency
Step 3: Short Division

National Curriculum Objectives:

Mathematics Year 6: (6C7b) Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

Differentiation:

Developing Questions to support using short division to divide a 3 or 4-digit number by a 1-digit number using a short division format with up to 1 exchange. Whole number answers.
Expected Questions to support short division to divide a 4-digit number by a 1 or 2-digit number using linear and short division format with up to 2 exchanges. Some use of remainders.
Greater Depth Questions to support using short division to divide a 4-digit number by any 2-digit number using linear and short division format with multiple exchanges. Answers to include remainders.

More Year 6 Four Operations resources.

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Short Division

1a. The following calculation is correct. True or false?

	0	7	1	0
5	3	$^{3}5$	5	0

D VF

Short Division

1b. The following calculation is correct. True or false?

	1	0	0	4
8	8	0	3	$^{3}2$

D VF

2a. Complete these calculations.

A.

4	8	4	1	6

B.

9	9	6	3	9

C.

7	6	3	0	

D VF

2b. Complete these calculations.

A.

3	9	6	9	

B.

7	7	4	2	0

C.

5	8	5	5	

D VF

3a. Complete these calculations and circle the answers less than 350.

A.

6	8	4	6

B.

4	4	9	6	0

C.

7	2	1	7	0

D VF

3b. Complete these calculations and circle the answers greater than 350.

A.

3	8	7	9

B.

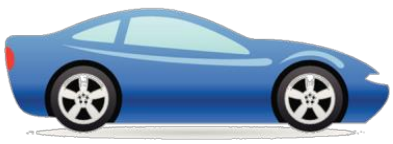
4	6	4	0	8

C.

6	6	3	6	0

D VF

4a. There are 5 cars on a lorry. How many lorries are needed to transport 575 cars to showroom?



D VF

4b. There are 8 bananas in a bunch. How many bunches are needed if 560 children are to have a banana each?



D VF

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Short Division

5a. The following calculation is correct. True or false?

	0	8	3	0
9	7	$^{7}4$	$^{2}7$	8

VF

5b. The following calculation is correct. True or false?

	0	7	9	0	r5
7	5	$^{5}5$	$^{6}4$	5	

VF

6a. Complete these calculations.

A.

1	1	4	8	4	9

B.

7	6	3	9	9

C.

1	8	7	2	5	4

VF

6b. Complete these calculations.

A.

1	6	7	8	4	5

B.

8	9	6	4	9

C.

1	3	5	2	5	6

VF

7a. Use short division to complete the calculations below.

A. 6,036 ÷ 12 =

B. 4,168 ÷ 16 =

C. 3,513 ÷ 13 =

Circle the answers less than 500.

VF

7b. Use short division to complete the calculations below.

A. 5,168 ÷ 17 =

B. 2,948 ÷ 14 =

C. 6,484 ÷ 18 =

Circle the answers greater than 300.

VF

8a. There are 14 pencils in a box. How many boxes of pencils are needed for 1,685 children to have a pencil each?



VF

8b. There are 20 lollipops in a jar. How many jars are needed if 2,405 children are to have a lollipop each?



VF

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Short Division

9a. The following calculation is correct. True or false?

		0	1	4	2	r1	0
2	5	3	$^{3}5$	$^{10}6$	$^{6}1$		

GD VF

9b. The following calculation is correct. True or false?

		0	1	2	6	r2
3	4	4	$^{4}3$	$^{9}1$	$^{23}0$	

GD VF

10a. Complete these calculations.

A.

2	2	4	8	5	4

B.

2	7	5	5	0	9

C.

3	6	3	9	6	8

GD VF

10b. Complete these calculations.

A.

3	2	6	8	3	6

B.

2	5	8	9	5	9

C.

2	8	7	6	2	3

GD VF

11a. Use short division to complete the calculations below.

A. 3,659 ÷ 26 =

B. 8,691 ÷ 32 =

C. 7,828 ÷ 24 =

Circle the answers that produce a remainder 19.

GD VF

11b. Use short division to complete the calculations below.

A. 3,479 ÷ 22 =

B. 7,853 ÷ 26 =

C. 6,989 ÷ 34 =

Circle the answers that have a remainder greater than 1.

GD VF

12a. There are 42 cakes in a box. If 3,456 visitors are expected at the event, how many boxes of cakes are needed so each visitor has one?

How many spare cakes will there be?

GD VF

12b. A train carriage can carry a maximum of 55 passengers. How many carriages will be needed to carry 5,766 passengers so that everyone has a seat?

How many spare seats will there be?

GD VF

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Varied Fluency
Short Division

Developing

1a. True.
2a. A = 2,104; B = 1,071; C = 90
3a. A and C circled.
4a. 115 lorries.

Expected

5a. False. The answer is 830 r8
6a. A = 440 r9; B = 914 r1; C = 403
7a. B and C circled.
8a. 121 boxes.

Greater Depth

9a. False. The answer is 142 r11
10a. A = 220 r14; B = 204 r1; C = 110 r8
11a. A and B circled.
12a. 83 boxes of cakes. There will be 30 spare cakes.

Varied Fluency
Short Division

Developing

1b. True.
2b. A = 323; B = 1,060; C = 171
3b. B and C circled.
4b. 70 bunches.

Expected

5b. False. The answer is 792 r1
6b. A = 490 r5; B = 1,206 r1; C = 404 r4
7b. A and C circled.
8b. 121 jars.

Greater Depth

9b. False. The answer is 126 r26
10b. A = 213 r20; B = 358 r9; C = 272 r7
11b. A and C circled.
12b. 105 carriages. There will be 9 seats spare.

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