Varied Fluency
Step 5: Multiply 4-Digits by 2-Digits

National Curriculum Objectives:

Mathematics Year 5: (5C6a) Multiply and divide numbers mentally drawing upon known facts
Mathematics Year 5: (5C7a) Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers

Differentiation:

Developing Questions to support multiplying 4-digit numbers by 2-digit numbers (up to 30). No exchanges.
Expected Questions to support multiplying 4-digit numbers by 2-digit numbers (up to 50). Up to one exchange per calculation.
Greater Depth Questions to support multiplying 4-digit numbers by 2-digit numbers (up to 99). One or more exchanges per calculation.

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.

Multiply 4-Digits by 2-Digits

1a. Use the grid method to complete the calculation below.

x	10	2
3,000		
100		
20		
4		

3,124 x 12 = ☐

D VF

2a. True or false? This calculation is matched to the correct answer.

1,000 x 10

- 1,000,000
- 100,000
- 100
- 10,000

D VF

3a. Complete the calculations below.

	1	2	0	2
x			1	3

D VF

4a. Calculate the area of this lake.

2,141m

21m

D VF

Multiply 4-Digits by 2-Digits

1b. Use the grid method to complete the calculation below.

x	20	2
2,000		
100		
30		
1		

2,132 x 22 = ☐

D VF

2b. True or false? This calculation is matched to the correct answer.

2,000 x 10

- 2,000,000
- 200,000
- 200
- 20,000

D VF

3b. Complete the calculations below.

	1	2	0	4
x			1	2

D VF

4b. Calculate the area of this field.

1,202m

14m

D VF

Multiply 4-Digits by 2-Digits

5a. Use the grid method to complete the calculation below.

x	10	1
4,000		
200		
30		
5		

4,235 x 11 = ☐

VF

Multiply 4-Digits by 2-Digits

5b. Use the grid method to complete the calculation below.

x	20	2
3,000		
100		
20		
3		

3,123 x 22 = ☐

VF

6a. True or false? This calculation is matched to the correct answer.

2,340 x 10

- 2,340,000
- 234,000
- 234
- 23,400

VF

6b. True or false? This calculation is matched to the correct answer.

5,670 x 10

- 5,670,000
- 567,000
- 567
- 56,700

VF

7a. Complete the calculations below.

	1	1	0	2
x			3	3

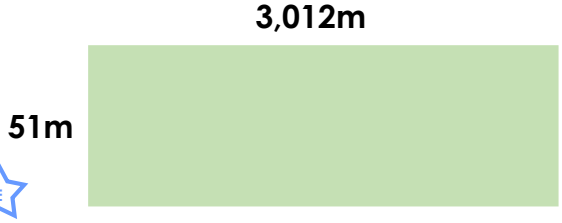
VF

7b. Complete the calculations below.

	1	1	0	3
x			4	3

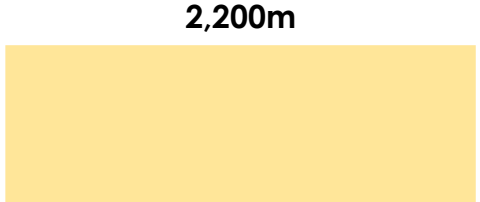
VF

8a. Calculate the area of this park.



VF

8b. Calculate the area of this beach.



VF

Multiply 4-Digits by 2-Digits

9a. Use the grid method to complete the calculation below.

x	30	6
5,000		
400		
30		
2		

5,432 x 36 =

GD VF

Multiply 4-Digits by 2-Digits

9b. Use the grid method to complete the calculation below.

x	40	7
7,000		
600		
50		
5		

7,655 x 47 =

GD VF

10a. True or false? This calculation is matched to the correct answer.

3,950 x 10

- 3,950,000
- 395,000
- 39.5
- 39,500

GD VF

10b. True or false? This calculation is matched to the correct answer.

4,870 x 10

- 48,700
- 48.7
- 487,000
- 4,870,000

GD VF

11a. Complete the calculations below.

	9	6	4	3
x			5	4

GD VF

11b. Complete the calculations below.

	8	5	1	7
x			6	9

GD VF

12a. Calculate the area of this playground.

7,293m

54m

GD VF

12b. Calculate the area of this factory.

6,418m

67m

GD VF

Varied Fluency
Multiply 4-Digits by 2-Digits

Developing

1a. 37,488

x	10	2
3,000	30,000	6,000
100	1,000	200
20	200	40
4	40	8

2a. False. 1,000 x 10 = 10,000

3a.

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

4a. 2,141m x 21m = 44,961m²

Expected

5a. 46,585

x	10	1
4000	40,000	4,000
200	2,000	200
30	300	30
5	50	5

6a. False. 2,340 x 10 = 23,400

7a.

	1	1	0	2
x			3	3
	3	3	0	6
3	3	0	6	0
3	6	3	6	6

8a. 3,012m x51 m = 153,612m²

Greater Depth

9a. 195,552

x	30	6
5,000	150,000	30,000
400	12,000	2,400
30	900	180
2	60	12

10a. False. 3,950 x 10 = 39,500

11a.

		9	6	4	3
x				5	4
	3	8	5	7	2
		2	1	1	
4	8	2	1	5	0
	3	2	1		
5	2	0	7	2	2
1	1		1		

12a. 7,293m x 54m = 393,822m²

Varied Fluency
Multiply 4-Digits by 2-Digits

Developing

1b. 46,882

x	20	2
2,000	40,000	4,000
100	2,000	200
30	600	60
1	20	2

2b. True. 2,000 x 10 = 20,000

3b.

	1	2	0	4
x			1	2
	2	4	0	8
1	2	0	4	0
1	4	4	4	8

4b. 1,202m x14 m = 16,828m²

Expected

5b. 68,706

x	20	2
3,000	60,000	6,000
100	2,000	200
20	400	40
3	60	6

6b. False. 5,670 x 10 = 56,700

7b.

	1	1	0	3
x			4	3
	3	3	0	9
4	4	1	2	0
		1		
4	7	4	2	9

8b. 2,200m x 45m = 99,000m²

Greater Depth

9b. 359,785

x	40	7
7,000	280,000	49,000
600	24,000	4,200
50	2,000	350
5	200	35

10b. True. 4,870 x 10 = 48,700

11b.

		8	5	1	7
x				6	9
	7	6	6	5	3
		4	1	6	
5	1	1	0	2	0
	3	1	4		
5	8	7	6	7	3

12b. 6,418m x 67m = 430,006m²