

# Varied Fluency

## Step 7: Multiply 3 Digits by 1 Digit

### National Curriculum Objectives:

Mathematics Year 4: (4C6a) [Recall multiplication and division facts for multiplication tables up to  \$12 \times 12\$](#)

Mathematics Year 4: (4C7) [Multiply two-digit and three-digit numbers by a one-digit number using formal written layout](#)

### Differentiation:

**Developing** Questions to support multiplying 3-digit numbers by 1-digit numbers using expanded form only. Includes up to one exchange and no zeros in the tens or ones column. Supported with place value charts for all questions.

**Expected** Questions to support multiplying 3-digit numbers by 1-digit numbers using short written method. Includes up to two exchanges and some use of zeros in the tens or ones column. Supported with place value charts for all questions.



**Greater Depth** Questions to support multiplying 3-digit numbers by 1-digit numbers using short written method. Includes up to three exchanges and use of zeros in the tens or ones column. Includes multi-step and incomplete calculations.

More [Year 4 Multiplication and Division](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Multiply 3 Digits by 1 Digit

1a. True or false? The calculation below has been worked out correctly.

Hundreds	Tens	Ones
		




	8	2	4
x			2
<hr/>			
		8	(4 x 2)
	6	0	(20 x 2)
1	6	0	0 (800 x 2)
<hr/>			
1	6	6	8



VF

Multiply 3 Digits by 1 Digit

1b. True or false? The calculation below has been worked out correctly.

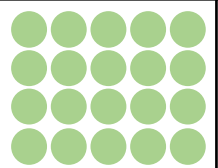


Hundreds	Tens	Ones
		

	6	4	1
x			2
<hr/>			
		2	(1 x 2)
	8	0	(40 x 2)
1	2	0	0 (600 x 2)
<hr/>			
1	2	8	2



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2a. Circle the correct answer to the calculation below.

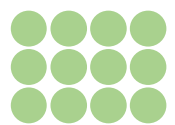
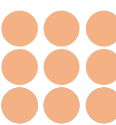

Hundreds	Tens	Ones
		

	5	1	2
x			4
<hr/>			
			0
		0	0
<hr/>			



VF

2b. Circle the correct answer to the calculation below.

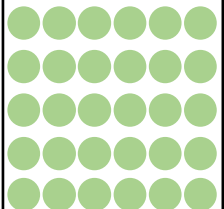


Hundreds	Tens	Ones
		

	4	3	2
x			3
<hr/>			
			0
		0	0
<hr/>			



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3a. Complete the calculation.

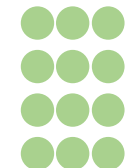
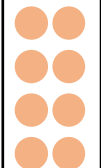

Hundreds	Tens	Ones
		

	6	1	1
x			5
<hr/>			
			0
		0	0
<hr/>			



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3b. Complete the calculation.

Hundreds	Tens	Ones
		

	3	2	1
x			4
<hr/>			
			0
		0	0
<hr/>			

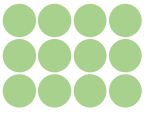
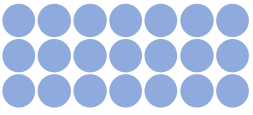


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Multiply 3 Digits by 1 Digit

Multiply 3 Digits by 1 Digit

4a. True or false? The calculation below has been worked out correctly.


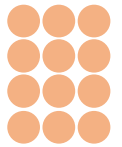
Hundreds	Tens	Ones
		

	4	0	7
x			3
1	2	2	1



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4b. True or false? The calculation below has been worked out correctly.



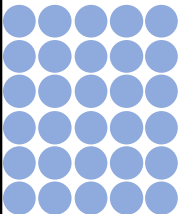
Hundreds	Tens	Ones
		

	3	3	0
x			4
1	3	2	4
		1	



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5a. Circle the correct answer to the calculation below.

Hundreds	Tens	Ones
		

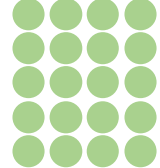
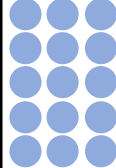
	2	1	5
x			6

1,260    1,230    1,290



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5b. Circle the correct answer to the calculation below.

Hundreds	Tens	Ones
		

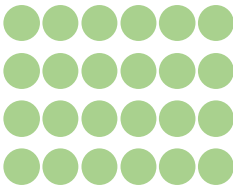
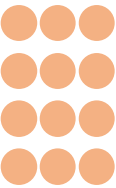

	4	0	3
x			5

2,510    2,015    2,105



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6a. Complete the calculation.

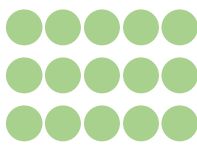
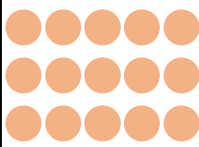
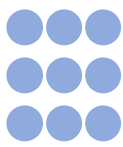
Hundreds	Tens	Ones
		

	6	3	2
x			4



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6b. Complete the calculation.

Hundreds	Tens	Ones
		

	5	5	3
x			3



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## Multiply 3 Digits by 1 Digit

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7a. Complete and compare the calculations below using the <, > or = symbols.

	8	0	3
x			7
<hr/>			

	6	9	0
x			8
<hr/>			



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7b. Complete and compare the calculations below using the <, > or = symbols.

	9	5	0
x			6
<hr/>			

	7	0	9
x			9
<hr/>			



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8a. Complete the calculation below.

	8	9	2
x			
<hr/>			
5			2
	5	1	



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8b. Complete the calculation below.

	7		6
x			4
<hr/>			
	1	4	
	3	2	



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9a. Find the difference between the answers of the calculations below.

A.

	7	6	0
x			9
<hr/>			

	8	0	9
x			4
<hr/>			

B.

	6	0	7
x			8
<hr/>			

	7	9	0
x			6
<hr/>			



VF

9b. Find the difference between the answers of the calculations below.

A.

	5	0	8
x			6
<hr/>			

	3	6	0
x			8
<hr/>			

B.

	8	9	0
x			5
<hr/>			

	6	0	8
x			7
<hr/>			



VF

Varied Fluency  
Multiply 3 Digits by 1 Digit

Developing

1a. False,  $20 \times 2 = 40$ , not 60. The answer should be 1,648.

2a. 2,048

3a. 3,055

Expected

4a. True

5a. 1,290

6a. 2,528

Greater Depth

7a.  $5,621 > 5,520$

8a.  $892 \times \underline{6} = 5,3\underline{5}2$

9a. A:  $6,840 - 3,236 = 3,604$ , B:  $4,856 - 4,740 = 116$

Varied Fluency  
Multiply 3 Digits by 1 Digit

Developing

1b. True

2b. 1,296

3b. 1,284

Expected

4b. False,  $0 \times 4 = 0$ , not 4. The answer should be 1,320.

5b. 2,015

6b. 1,659

Greater Depth

7b.  $5,700 < 6,381$

8b.  $7\underline{8}6 \times 4 = \underline{3},14\underline{4}$

9b. A:  $3,048 - 2,880 = 168$ , B:  $4,450 - 4,256 = 194$