Varied Fluency
Step 3: Multiply 2 Digits by 2 Digits

Teaching note: We have included grids for column multiplication and recommend that this resource is printed in colour or greyscale.

National Curriculum Objectives:

Mathematics Year 5: (5C6a) Multiply and divide numbers mentally drawing upon known facts
Mathematics Year 5: (5C6b) Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000
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 two 2-digit numbers using a fully expanded method. No exchanges.
Expected Questions to support multiplying two 2-digit numbers using a formal multiplication method including exchanges.
Greater Depth Questions to support multiplying two 2-digit numbers using a formal multiplication method including exchanges, where the numbers in the questions are incomplete.

More Year 5 Multiplication and Division resources.

Did you like this resource? Don't forget to review it on our website.

Multiply 2 Digits by 2 Digits

Multiply 2 Digits by 2 Digits

1a. Complete the statement below using <, > or =.

11 x 23 ☐ 12 x 22

			2	3
x			1	1

			2	2
x			1	2

D VF

1b. Complete the statement below using <, > or =.

14 x 21 ☐ 23 x 12

			1	4
x			2	1

			2	3
x			1	2

D VF

2a. True or false? 16 x 12 = 182

			1	6	
x			1	2	
			1	2	(2 x 6)
			2	0	(2 x 10)
			6	0	(10 x 6)
		1	0	0	(10 x 10)
		1	8	2	

D VF

2b. True or false? 15 x 21 = 315

			1	5	
x			2	1	
				5	(1 x 5)
			1	0	(1 x 10)
		1	0	0	(20 x 5)
		2	0	0	(20 x 10)
		3	1	5	

D VF

3a. Complete the calculation below.

			2	7	
x			2	1	
					(1 x 7)
					(1 x 20)
					(20 x 7)
					(20 x 20)

D VF

3b. Complete the calculation below.

			2	2	
x			2	6	
					(6 x 2)
					(6 x 20)
					(20 x 2)
					(20 x 20)

D VF

Multiply 2 Digits by 2 Digits

Multiply 2 Digits by 2 Digits

4a. Complete the statement below using <, > or =.

12 x 38 ☐ 14 x 34

x

x

E

VF

4b. Complete the statement below using <, > or =.

23 x 45 ☐ 24 x 44

x

x

E

VF

5a. True or false? 44 x 23 = 912

			4	4
x			2	3
		1	3 (1)	2
		8	8	0
		9	1	2
		1		

(3 x 44)

(20 x 44)

E

VF

5b. True or false? 56 x 34 = 1,094

			5	6
x			3	4
		2	2 (2)	4
	1	6 (1)	8	0
	1	0	9	4
		1		

(4 x 56)

(30 x 56)

E

VF

6a. Complete the calculation below.

			4	3
x			3	5

(5 x 43)

(30 x 43)

E

VF

6b. Complete the calculation below.

			6	3
x			2	5

(5 x 63)

(20 x 63)

E

VF

Multiply 2 Digits by 2 Digits

7a. Complete the statement below using your own digits.

3 □ x 75 < 34 x 7 □

x

x

GD VF

7b. Complete the statement below using your own digits.

16 x 2 □ > 1 □ x 21

x

x

GD VF

8a. True or false? The digit cards can be used to complete the calculation below.

			7	□
x			□	5
	2	5	2	0
		1		

2 4

GD VF

8b. True or false? The digit cards can be used to complete the calculation below.

			5	7
x			□	□
	2	5	0	8

3 4

GD VF

9a. Complete the calculation below.

			□	8
x			4	□
	2	9	2	4

GD VF

9b. Complete the calculation below.

			□	□
x			2	6
	1	2	7	4
	1	1		

GD VF

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Developing

1a. 11 x 23 (253) < 12 x 22 (264)

2a. False, the correct answer is 192.

3a.

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

(1 x 7)
(1 x 20)
(20 x 7)
(20 x 20)

Expected

4a. 12 x 38 (456) < 14 x 34 (476)

5a. False, the correct answer is 1,012

6a.

			4	3
x			3	5
		2	1_{1}	5
	1_{1}	2	9	0
	1	5	0	5
		1		

(5 x 43)
(30 x 43)

Greater Depth

7a. Various answers, for example:
32 x 75 (2,400) < 34 x 73 (2,482)

8a. False, the digits 2 and 3 would correctly complete the calculation.

			7	2
x			3	5
		3	6_{1}	0
	2_{2}	1	6	0
	2	5	2	0
		1		

9a.

			6	8
x			4	3
		2	0_{2}	4
	2	7_{3}	2	0
	2	9	2	4

Varied Fluency
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Developing

1b. 14 x 21 (294) > 23 x 12 (276)

2b. True

3b.

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

(6 x 2)
(6 x 20)
(20 x 2)
(20 x 20)

Expected

4b. 23 x 45 (1,035) < 24 x 44 (1,056)

5b. False, the correct answer is 1,904

6b.

			6	3
x			2	5
		3	1_{1}	5
	1_{1}	2	6	0
	1	5	7	5

(5 x 63)
(20 x 63)

Greater Depth

7b. Various answers, for example:
16 x 22 (352) > 13 x 21 (273)

8b. False, the digits 4 and 4 would correctly complete the calculation.

			5	7
x			4	4
		2	2_{2}	8
	2	2_{2}	8	0
	2	5	0	8
		1		

9b.

			4	9
x			2	6
		2	9_{5}	4
		9_{1}	8	0
	1	2	7	4
	1	1		