Homework/Extension
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:

Questions 1, 4 and 7 (Varied Fluency)
Developing Match the calculations to the correct answers. Questions include the fully expanded method. No exchanges.
Expected Match the calculations to the correct answers. Questions include a formal multiplication method including up to two exchanges.
Greater Depth Match the calculations to the correct answers. Questions include a formal multiplication method including up to two exchanges where the numbers in the questions are incomplete.

Questions 2, 5 and 8 (Varied Fluency)
Developing Identify which formal method is correct by completing the calculation. Questions include the fully expanded method. No exchanges.
Expected Identify which formal method is correct by completing the calculation. Questions include a formal multiplication method including up to two exchanges.
Greater Depth Identify which formal method is correct by completing the calculation. Questions include a formal multiplication method including up to two exchanges where the numbers in the questions are incomplete.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Arrange the digit cards to complete a calculation that equals less than a given value. Questions include the fully expanded method. No exchanges.
Expected Arrange the digit cards to create a calculation that equals a value within given parameters. Questions include a formal multiplication method including up to two exchanges.
Greater Depth Arrange the digit cards to complete a calculation that equals a given value. Questions include a formal multiplication method including up to two 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

1. Match the calculations to the correct answers.

A.

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

294

B.

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

315

C.

			2	1	
x			1	4	
					(1 x 4)
					(20 x 4)
					(10 x 1)
					(20 x 10)

299

VF
HW/Ext

2. Complete the calculation to find the correct formal written method.

A.

			2	1	
x			2	1	
				1	(1 x 1)
			2	0	(20 x 1)
			2	0	(20 x 1)
			4	0	(20 x 20)

B.

			1	6	
x			2	2	
				1	2	(6 x 2)
			2	0	(10 x 2)
	1	2	0		(20 x 6)
	2	0	0		(10 x 20)

C.

			3	2	
x			2	4	
				8	(2 x 4)
			1	2	(3 x 4)
				4	(2 x 2)
				6	(3 x 2)

VF
HW/Ext

3. Arrange two of the digit cards below to create a calculation that equals a number less than 500.

2	3
4	6

			1	5	
x			☐	☐	
					(___ x ___)
					(___ x ___)
					(___ x ___)
					(___ x ___)

RPS
HW/Ext

Multiply 2 Digits by 2 Digits

4. Match the calculations to the correct answers.

A.

			2	4
x			1	6

B.

			3	2
x			1	8

C.

			4	3
x			1	2

576 516 384

E

VF
HW/Ext

5. Complete the calculation to find the correct formal written method.

A.

			5	2	
x			3	6	
		3	0^{1}	2	(6 x 52)
	1	5	6	0	(30 x 52)

B.

			5	2	
x			3	6	
		3	1^{1}	2	(6 x 52)
	1	5	6	0	(30 x 52)

C.

			5	2	
x			3	6	
		3	1^{1}	2	(6 x 52)
	1	5	6	0	(30 x 52)

E

VF
HW/Ext

6. Arrange four of the digit cards below to create a calculation that equals a number that is more than 700 but less than 750.

1	2	3
4	5	6

			□	□
x			□	□

E

RPS
HW/Ext

Multiply 2 Digits by 2 Digits

7. Match the calculations to the correct answers.

A.

			2	□
x			1	6
		□	6	2
			4	
		□	7	0

B.

			2	6
x			2	□
			7	8
			1	
		5	□	0
		1		

C.

			3	3
x			□	9
		2	□	7
		6	6	□

GD

432	957	598

VF
HW/Ext

8. Complete the calculation to find the correct formal written method.

A.

			□	8
x			1	7
		3	3	6
			5	
		5	9	0

B.

			□	8
x			1	7
		3	3	6
			5	
		4	8	0

C.

			□	8
x			1	7
	3	3	6	0
		5		
			4	8

GD

VF
HW/Ext

9. Arrange the digit cards to create a calculation that equals 3,195.

9	1	3
4	5	7

			□	□
x			□	□

GD

RPS
HW/Ext

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Developing

1. A. 299, B. 315, C. 294
2. B is correct. The answer is 352.
3. Various answers, for example: 15 x 23 = 345, 15 x 26 = 390 or 15 x 32 = 480

Expected

4. A. 384, B. 576, C. 516
5. C is correct. The answer is 1,872.
6. Various answers, for example: 13 x 54 = 702, 13 x 56 = 728, 14 x 53 = 742, 16 x 45 = 720, 31 x 24 = 744

Greater Depth

7. A. 27 x 16 = 432, B. 26 x 23 = 598, C. 33 x 29 = 957
8. B is correct. The answer is 48 x 17 = 816.
9. 71 x 45