

Homework/Extension

Step 4: Multiply 3-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: (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. Calculations use fully expanded method and require no exchanges.

Expected Match the calculations to the correct answers. Calculations use a formal multiplication method and require up to two exchanges.

Greater Depth Match the calculations to the correct answers. Calculations use a formal multiplication method where the numbers in the questions are incomplete and require up to two exchanges.

Questions 2, 5 and 8 (Varied Fluency)

Developing Complete each number statement using $<$, $>$ or $=$. Calculations require no exchanges.

Expected Complete each number statement using $<$, $>$ or $=$. Calculations require up to two exchanges.

Greater Depth Complete each calculation to make each statement correct. Calculations are incomplete and require up to two exchanges.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Calculate the area of the compound shape. Calculations use fully expanded method and require no exchanges.

Expected Calculate the area of the compound shape. Calculations use a formal multiplication method and require up to two exchanges.

Greater Depth Calculate the area of the compound shape. Calculations use a formal multiplication method where the numbers in the questions are incomplete and require up to two exchanges.

More [Year 5 Multiplication and Division](#) resources.

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

Multiply 3-Digits by 2-Digits

1. Match the calculation to the correct answer.

A.

	3	2	1
x		1	4
<hr/>			

(1 x 4)
(20 x 4)
(300 x 4)
(1 x 10)
(20 x 10)
(300 x 10)

B.

	2	0	3
x		2	1
<hr/>			

(3 x 1)
(0 x 1)
(200 x 1)
(3 x 20)
(0 x 20)
(200 x 20)

C.

	3	1	2
x		3	2
<hr/>			

(2 x 2)
(10 x 2)
(300 x 2)
(2 x 30)
(10 x 30)
(300 x 30)

4,494

9,984

4,263



VF
HW/Ext

2. Complete each number statement using >, < or =.

A. 103 x 14 1,314

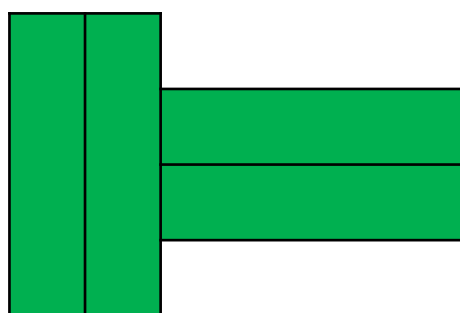
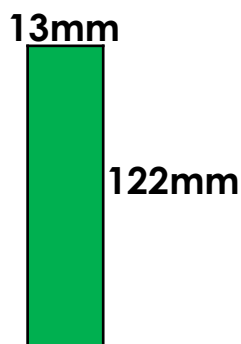
B. 105 x 11 2,524

C. 315 x 12 3,780



VF
HW/Ext

3. Using the measurements of a single rectangle, calculate the area of the compound shape.



x			
<hr/>			
<hr/>			

(___ x ___)
(___ x ___)
(___ x ___)
(___ x ___)
(___ x ___)
(___ x ___)



Not to scale

RPS
HW/Ext

Multiply 3-Digits by 2-Digits

4. Match the calculation to the correct answer.

A.

		5	7	3
	x		3	4
<hr/>				
<hr/>				

13,344

B.

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

4,480

C.

		2	8	0
	x		1	6
<hr/>				
<hr/>				

19,482



VF
HW/Ext

5. Complete each number statement using >, < or =.

A. 206 x 13 ○ 107 x 22

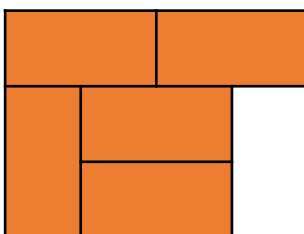
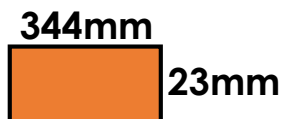
B. 328 x 32 ○ 234 x 52

C. 405 x 16 ○ 436 x 23



VF
HW/Ext

6. Using the measurements of a single rectangle, calculate the area of the compound shape.



	x			
<hr/>				
<hr/>				



Not to scale

RPS
HW/Ext

Multiply 3-Digits by 2-Digits

7. Use the clues to complete the calculations below. Match them to the correct answer.

A.

		6	5	4
	x		3	<input type="text"/>
				8

16,128

B.

		5	<input type="text"/>	4
	x		3	2
				0

20,928

C.

		2	8	<input type="text"/>
	x		6	2
				2

17,422



VF
HW/Ext

8. Complete each calculation to make each statement correct.

A. $360 \times 24 = 2\text{}0 \times 32$

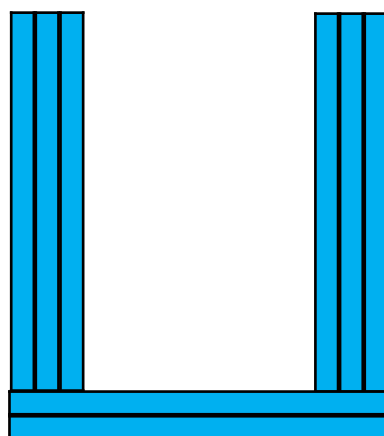
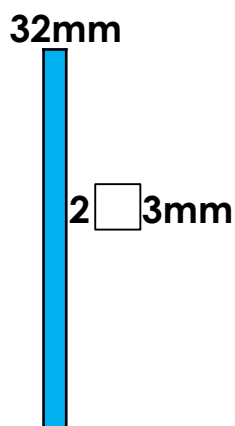
B. $282 \times 14 = \text{}88 \times 21$

C. $831 \times 24 = 55\text{} \times 36$



VF
HW/Ext

9. Using the measurements of a single rectangle, calculate the area of the compound shape.



		2	<input type="text"/>	3
	x		3	2
				4



Not to scale

RPS
HW/Ext

Homework/Extension Multiply 3-Digits by 2-Digits

Developing

1. A. 4,494; B. 4,263; C. 9,984
2. A. >, B. <, C. =
3. $122 \times 13 = 1,586\text{mm}^2$; $1586 \times 4 = 6,344\text{mm}^2$

Expected

4. A. 19,482; B. 13,344; C. 4,480
5. A. >, B. <, C. <
6. $344 \times 23 = 7,912\text{mm}^2$; $7912 \times 5 = 39,560\text{mm}^2$

Greater Depth

7. A. 20,928; B. 16,128; C. 17,422
8. A. 270×32 , B. 188×21 , 554×36
9. $223 \times 32 = 7,136\text{mm}^2$; $7,136 \times 8 = 57,088\text{mm}^2$