# 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) <u>Multiply and divide numbers mentally drawing upon</u> known facts

Mathematics Year 5: (5C7a) <u>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</u>

### 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.

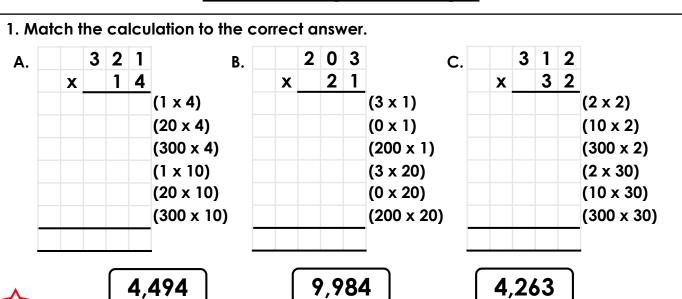
More Year 5 Multiplication and Division resources.

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



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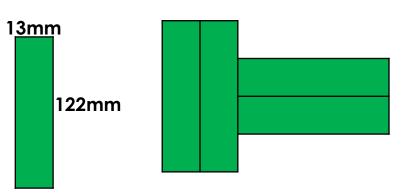
## **Multiply 3-Digits by 2-Digits**

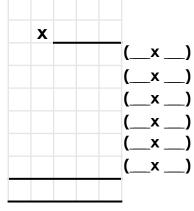


2. Complete each number statement using >, < or =.



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







Not to scale

RPS HW/Ext

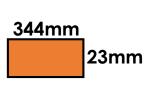
HW/Ext

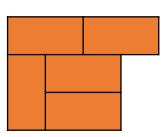
**Multiply 3-Digits by 2-Digits** 4. Match the calculation to the correct answer. 7 C. 5 3 В. 4 A. 2 8 0 3 3 2 1 6 X X X 13,344 4,480 19,482 HW/Ext 5. Complete each number statement using >, < or =. 107 206 22 **32** 234 В. 328 **52** 

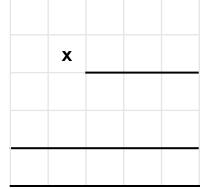
C. 405 436 16 23

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











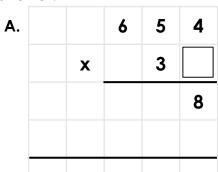
Not to scale

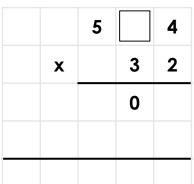
**RPS** HW/Ext

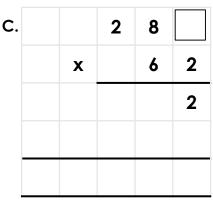
HW/Ext

## **Multiply 3-Digits by 2-Digits**

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









16,128

20,928

17,422

VF HW/Ext

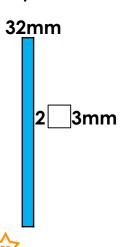
8. Complete each calculation to make each statement correct.

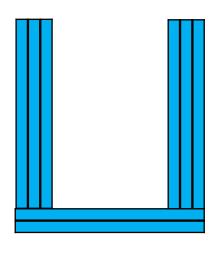
В.

X



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





	2		3
x		3	2
		4	

Not to scale

RPS HW/Ext



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## <u>Homework/Extension</u> 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 x 32, B. 188 x 21, 554 x 36
- 9. 223 x 32 = 7.136mm<sup>2</sup>; 7.136 x 8 = 57.088mm<sup>2</sup>