## Homework/Extension 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:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Decide if three multiplication calculations have been ordered correctly according to their products. Using expanded form only, up to one exchange, no zeros in the tens or ones column and with place value charts.

**Expected** Decide if three multiplication calculations have been ordered correctly according to their products. Using short written form, up to two exchanges, a zero in the ones column for one calculation and place value charts.

Greater Depth Decide if three multiplication calculations have been ordered correctly according to their products. Also create a fourth calculation to continue the ordering. Using short written form, up to three exchanges and zeros in the ones or tens columns.

### Questions 2, 5 and 8 (Varied Fluency)

Developing Find the odd one out of three calculations. Using expanded form only, up to one exchange, no zeros in the tens or ones column and place value charts. Expected Find the odd one out of three calculations. Using short written form, up to two exchanges, some use of zeros in the ones and tens columns and place value charts. Greater Depth Use digit cards to complete calculations. Using short written form, up to three three exchanges and digit cards can only be used once.

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

Developing Explain the mistakes in two given calculations. Using expanded form only and up to one exchange.

Expected Explain the mistakes in two given calculations. Using short written form and up to two exchanges.

Greater Depth Explain whether a given statement about two incomplete calculations is correct or not. Using short written form, zeros in the ones or tens columns and up to three exchanges.

More <u>Year 4 Multiplication and Division</u> resources.

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Homework/Extension – Multiply 3 Digits by 1 Digit – Teaching Information

# Multiply 3 Digits by 1 Digit



3. Zara thinks that both of the multiplications below are correct.

	3	9	6
x			5
		3	0
	4	5	0
1	5	0	0
1	9	8	0

Do you agree? Explain your answer.

D

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	4	7	8
x			4
		2	3
	2	8	0
1	6	0	0
1	9	0	3
	1		

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Homework/Extension – Multiply 3 Digits by 1 Digit – Year 4 Developing

# Multiply 3 Digits by 1 Digit



Homework/Extension – Multiply 3 Digits by 1 Digit – Year 4 Expected



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Homework/Extension – Multiply 3 Digits by 1 Digit – Year 4 Greater Depth

### Homework/Extension Multiply 3 Digits by 1 Digit

#### Developing

1. B (906), A (964), C (1,026)

A is incorrect because 300 x 2 = 600, not 500. The answer should be 624.
No, the second multiplication is incorrect because 8 x 4 = 32, not 23. The answer should be 1,912.

### **Expected**

- 4. A (840), C (936), B (1,518)
- 5. C It is incorrect because  $0 \ge 3 = 0$ , not 3. The answer should be 1,620.

6. No, the second multiplication is incorrect because the 15 (5 x 3) has been recorded wrongly in the answer. The 5 should be in the ones column in the answer and the 1 should be carried over to the tens column, to be added to the 24 (8 x 3). The answer should be 1,455.

### Greater Depth

7. C (2,127), B (1,972), A (1,920) D can be any multiplication calculation that has a product which is less than 1,920.



9. Yes, Zara is correct as all the missing numbers are 9.





Homework/Extension – Multiply 3 Digits by 1 Digit ANSWERS