Reasoning and Problem Solving Step 6: Multiply 2 Digits by 1 Digit

National Curriculum Objectives:

Mathematics Year 4: (4C7) <u>Multiply two-digit and three-digit numbers by a one-digit</u> <u>number using formal written layout</u>

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Solve the word problem by multiplying 2 digits by 1 digit using the expanded form only and no exchanges. Includes scaffolding.

Expected Solve the word problem. Supports multiplying 2 digits by 1 digit using the expanded method and includes exchanges.

Greater Depth Solve the word problem. Supports multiplying 2 digits by 1 digit using the short written method and includes exchanges. Includes missing numbers.

Questions 2, 5 and 8 (Problem Solving)

Developing Find the missing numbers to complete the calculation. Supports multiplying 2 digits by 1 digit using the expanded form only and no exchanges. Includes pictorial representations.

Expected Find the missing numbers to complete the calculation. Supports multiplying 2 digits by 1 digit using the short written method and includes exchanges. Includes pictorial representations.

Greater Depth Use the digit cards to complete the calculation. Supports multiplying 2 digits by 1 digit using the short written method and includes exchanges.

Questions 3, 6 and 9 (Reasoning)

Developing Identify whether the calculation has been solved correctly and explain your answer. Supports multiplying 2 digits by 1 digit using the expanded form only and no exchanges. Includes pictorial representations and scaffolding.

Expected Identify whether the calculation has been solved correctly and explain your answer. Supports multiplying 2 digits by 1 digit using the short written method and includes exchanges. Includes pictorial representations.

Greater Depth Identify who has solved the calculation incorrectly and explain your answer. Supports multiplying 2 digits by 1 digit using the short written method and includes exchanges.

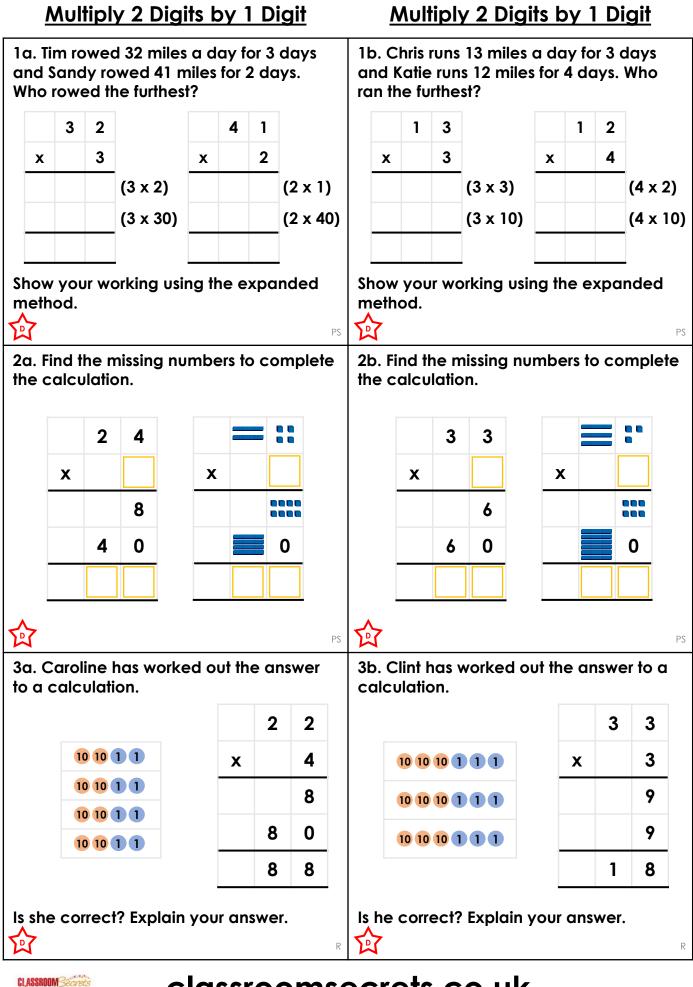
More Year 4 Multiplication and Division resources.

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



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Reasoning and Problem Solving – Multiply 2 Digits by 1 Digit – Teaching Information

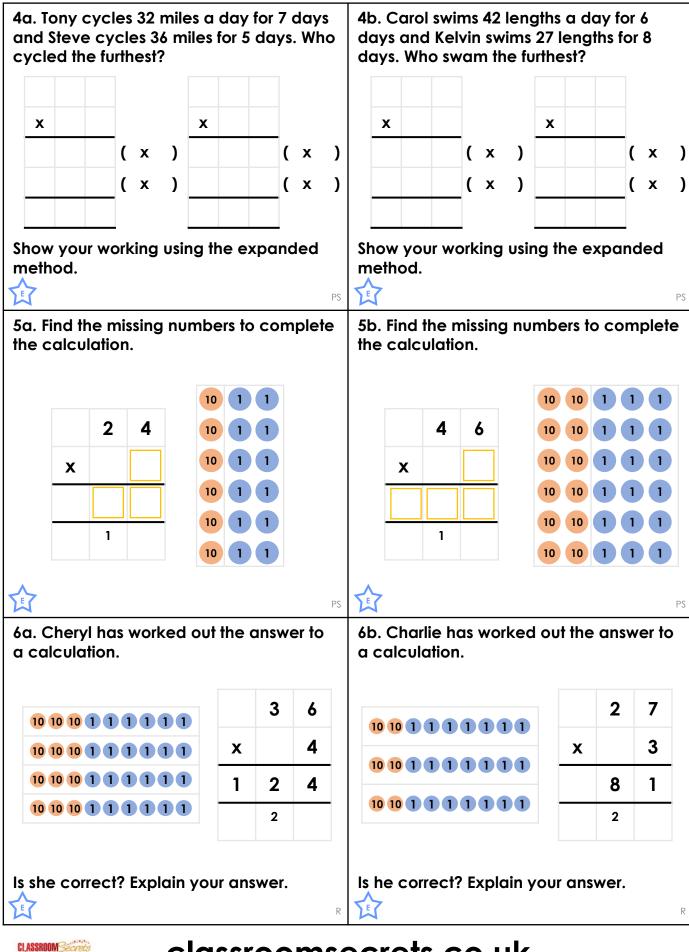


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Reasoning and Problem Solving – Multiply 2 Digits by 1 Digit – Year 4 Developing

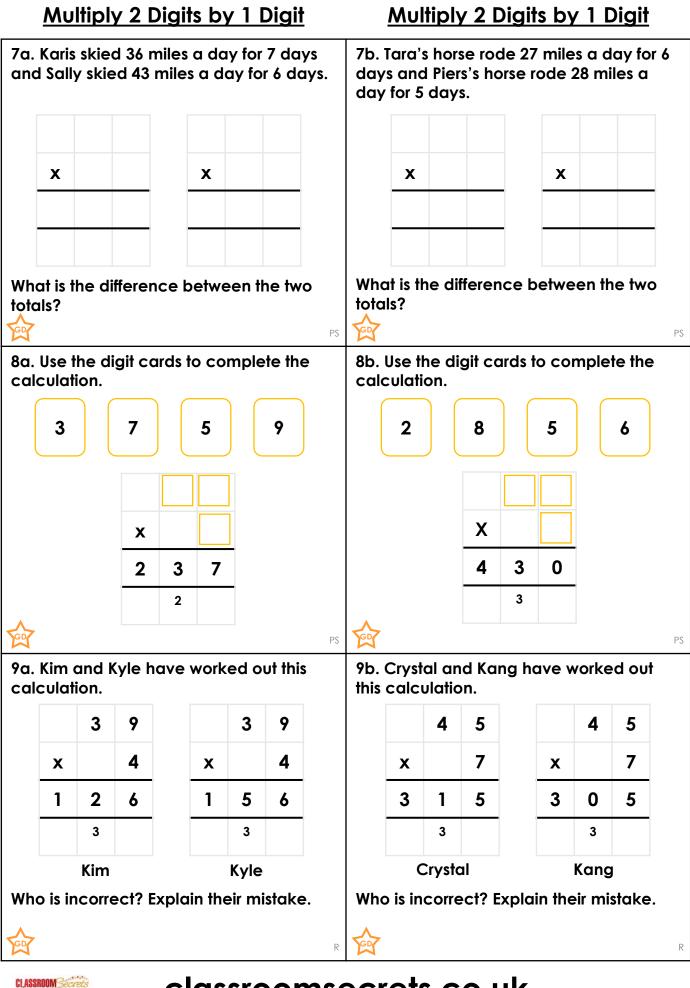
Multiply 2 Digits by 1 Digit



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Reasoning and Problem Solving – Multiply 2 Digits by 1 Digit – Year 4 Expected



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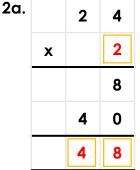
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Reasoning and Problem Solving – Multiply 2 Digits by 1 Digit – Year 4 Greater Depth

Reasoning and Problem Solving Multiply 2 Digits by 1 Digit

Developing

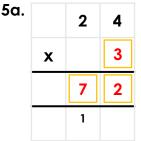
1a. Tim rowed 96 miles while Sandy only rowed 82 miles.



3a. Caroline is correct because $4 \times 2 = 8$ and $4 \times 20 = 80$. 8 and 80 is 88.

Expected

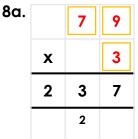
4a. Tony cycled 224 miles while Steve only rowed 180 miles.



6a. Cheryl is incorrect because she has not remembered to add in her exchange. 36 x 4 = 144 not 124.

Greater Depth

7a. 36 x 7 = 252; 43 x 6 = 256. The difference is 6.



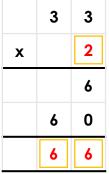
9a. Kim is incorrect because she has not added the exchange.

Reasoning and Problem Solving Multiply 2 Digits by 1 Digit

Developing

2b.

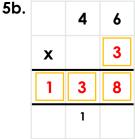
1b. Katie ran 48 miles while Chris only ran 39 miles.



3b. Clint is incorrect because he has calculated 3 x 3 instead of 3 x 30. 33 x 3 = 99 not 18.

Expected

4b. Carol swam 252 lengths while Kelvin only swam 216 lengths.



6b. Charlie is correct because 3 x 7 = 21 and 3 x 20 = 60. 21 + 60 = 81.

Greater Depth

7b. 27 x 6 = 162; 28 x 5 = 140. The difference is 22.

8b.		8	6
	Χ		5
	4	3	0
		3	

9b. Kang is incorrect because he has added the exchange incorrectly.

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