Varied Fluency Step 4: Multiply 3 Digits by 2 Digits

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:

Developing Questions to support multiplying 3-digit numbers by 2-digit numbers using the fully expanded method with no exchanges. Includes multiplication to find area and solving 1-step or 2-step problems.

Expected Questions to support multiplying 3-digit numbers by 2-digit numbers using a formal multiplication method including exchanges. Includes multiplication to find area and solving 2-step problems.

Greater Depth Questions to support multiplying 3-digit numbers by 2-digit numbers using a formal multiplication method including exchanges where the numbers in the questions are incomplete. Includes multiplication to find area and solving 2-step problems.

More Year 5 Multiplication and Division resources.

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

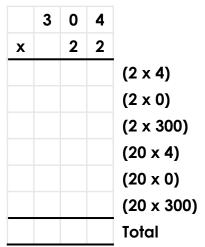
Multiply 3 Digits by 2 Digits

Multiply 3 Digits by 2 Digits

1a. Use the fully expanded method to complete the calculation below.

	3	2	1
X		3	1

1b. Use the fully expanded method to complete the calculation below.



re?

321 31 X

304 22

В.

2a. Complete the calculations below.

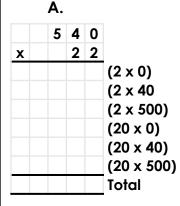
Α. 2 0 3 3 2 X (2×3) (2×0) (2×200) (30×3) (30×0) (30×200) Total

3 1 4 2 1 (1×4) (1×10)

В.

 (1×300) (20×4) (20×10) (20×300) Total

2b. Complete the calculations below.



1 1 6 3 1 X (1×6) (1×10) (1×100) (30×6) (30×10) (30×100) Total

VF

Which has the larger answer?

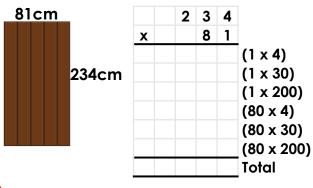


Which has the larger answer?

3a. Elise says,



My tablecloth is twice as big as the table.



3b. Rehan says,



My wall space is twice as big as the notice board.

> 1 | 4



6 X (3×2) (3×40) (3×100) (60×2) (60×40)

2

 (60×100) Total What is the area of his wall space?

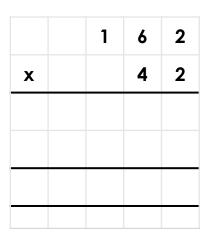
What is the area of her tablecloth? VF



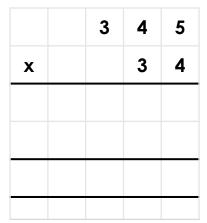
Multiply 3 Digits by 2 Digits

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4a. Use the formal multiplication method to complete the calculation below.



4b. Use the formal multiplication method to complete the calculation below.



SE?

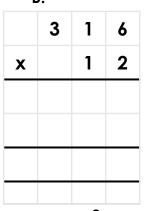
162 42 X

345

5a. Complete the calculations below.

X

1	0	1
	4	2



5b. Complete the calculations below.

6 3 2 X

2 0 7

5

3 X

Which has the larger answer?

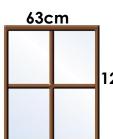


Which has the larger answer?

6a. Michael says,



My curtains are twice as big as the window.



X 122cm

What is the area of his curtains?

6 3

2

2

6b. Aleema says,



My room is twice the size of the rug.

245cm 46cm

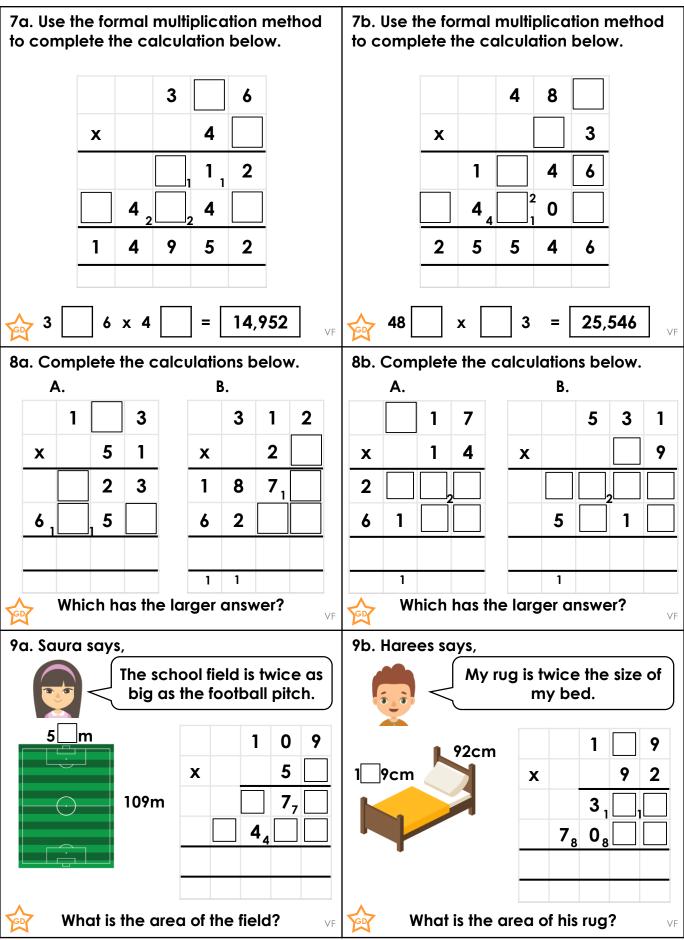
2 4 5 4 6 X

What is the area of her room?

classroomsecrets.co.uk

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Developing

1a. 9,951

2a. A. 6,496; B. 6,594.

The larger answer is B.

3a. 37,908cm²

Expected

4a. 6,804

5a. A. 4,242; B. 3,792.

The larger answer is A.

6a. 15,372cm².

Greater Depth

7a. $356 \times 42 = 14,952$

8a. A. $123 \times 51 = 6,273$;

B. $312 \times 26 = 8{,}112$. The larger answer is B.

9a. 12,644cm².

<u>Developing</u>

1b. 6,688

2b. A. 11,880; B. 3,596.

The larger answer is A.

3b. 17,892cm²

Expected

4b. 11,730

5b. A. 6,912; B. 7,245.

The larger answer is B.

6b. False. The area of the window is

11,270cm².

Greater Depth

7b. $482 \times 53 = 25,546$

8b. A. $617 \times 14 = 8,638$;

B. 531 x $\underline{1}$ 9 = 10,089. The larger answer is B.

9b. 34,776cm².

