# 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> <u>known facts</u> Mathematics Year 5: (5C7a) <u>Multiply numbers up to 4 digits by a one- or two-digit number</u> using a formal written method, including long multiplication for two-digit numbers

# 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.

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Varied Fluency – Multiply 3 Digits by 2 Digits – Year 5 Developing



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Varied Fluency – Multiply 3 Digits by 2 Digits – Year 5 Expected



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#### **Developing**

1a. 9,951 2a. A. 6,496; B. 6,594. The larger answer is B. 3a. 37,908cm<sup>2</sup>

### **Expected**

4a. 6,804 5a. A. 4,242; B. 3,792. The larger answer is A. 6a. 15,372cm<sup>2</sup>.

### Greater Depth

7a. 3<u>5</u>6 x 4<u>2</u> = 14,952 8a. A. 1<u>2</u>3 x 51 = 6,273; B. 312 x 2<u>6</u> = 8,112. The larger answer is B. 9a. 12,644cm<sup>2</sup>.

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### Developing 1b. 6,688 2b. A. 11,880; B. 3,596. The larger answer is A. 3b. 17,892cm<sup>2</sup>

Expected 4b. 11,730 5b. A. 6,912; B. 7,245. The larger answer is B. 6b. False. The area of the window is 11,270cm<sup>2</sup>.

<u>Greater Depth</u> 7b. 48<u>2</u> x <u>5</u>3 = 25,546 8b. A. <u>6</u>17 x 14 = 8,638; B. 531 x <u>1</u>9 = 10,089. The larger answer is B. 9b. 34,776cm<sup>2</sup>.



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