## Varied Fluency Step 17: Multiply Non-Unit Fractions by an Integer

# National Curriculum Objectives:

Mathematics Year 5: (5F5) <u>Multiply proper fractions and mixed numbers by whole</u> <u>numbers, supported by materials and diagrams</u> Mathematics Year 5: (5F2a) <u>Recognise mixed numbers and improper fractions and</u> <u>convert from one form to the other and write mathematical statements > 1 as a mixed</u> <u>number [for example, 2/5 + 4/5 = 6/5 = 1 1/5 ]</u> Mathematics Year 5: (5F2b) Identify, name and write equivalent fractions of a given

fraction, represented visually, including tenths and hundredths

# Differentiation:

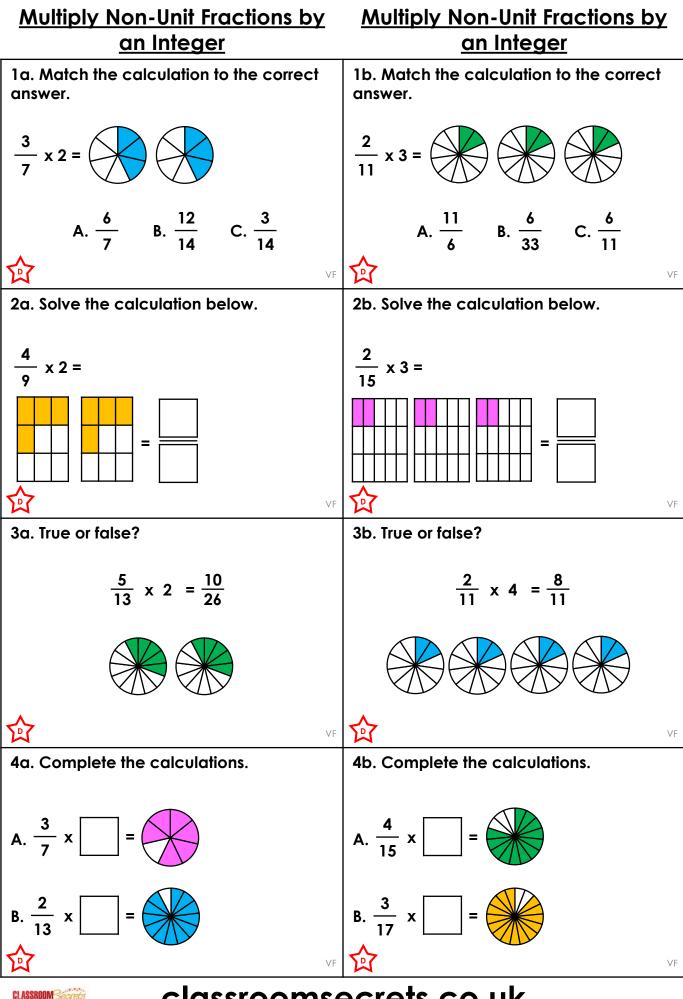
**Developing** Questions to support multiplying non-unit fractions by integers. Images provided for support.

Expected Questions to support multiplying non-unit fractions by integers. Fractions may need to be reduced to their simplest form using knowledge of equivalent fractions or improper fractions converted to mixed numbers. Images provided for support. Greater Depth Questions to support multiplying non-unit fractions by integers. Fractions will need to be reduced to their simplest form using knowledge of equivalent fractions and improper fractions converted to mixed numbers. No images provided.

More <u>Year 5 Fractions</u> resources.

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

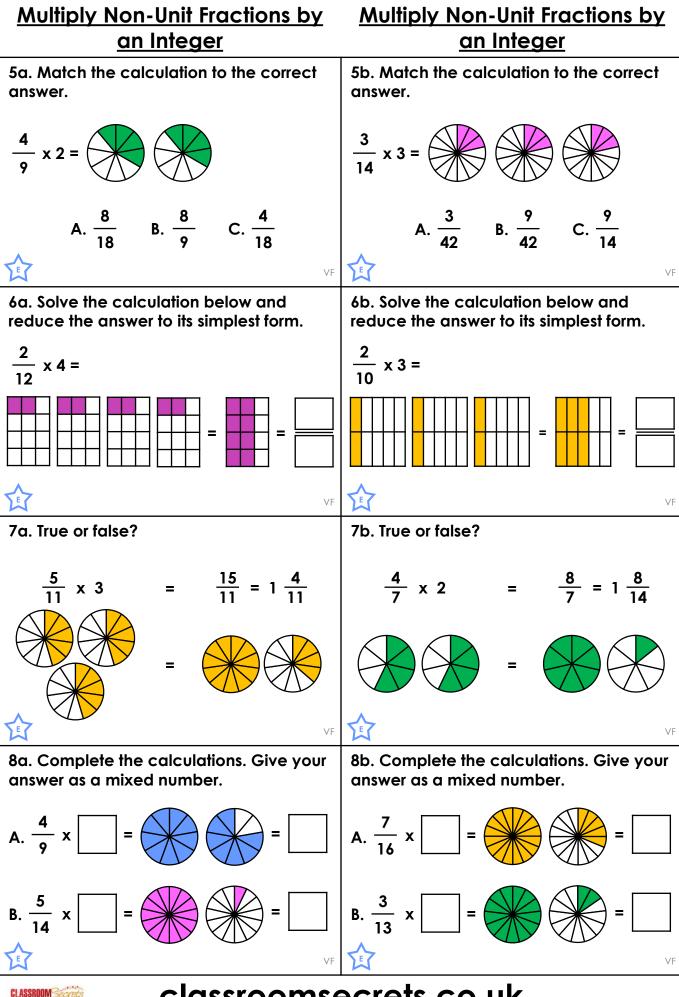




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Varied Fluency – Multiply Non-Unit Fractions by an Integer – Year 5 Developing

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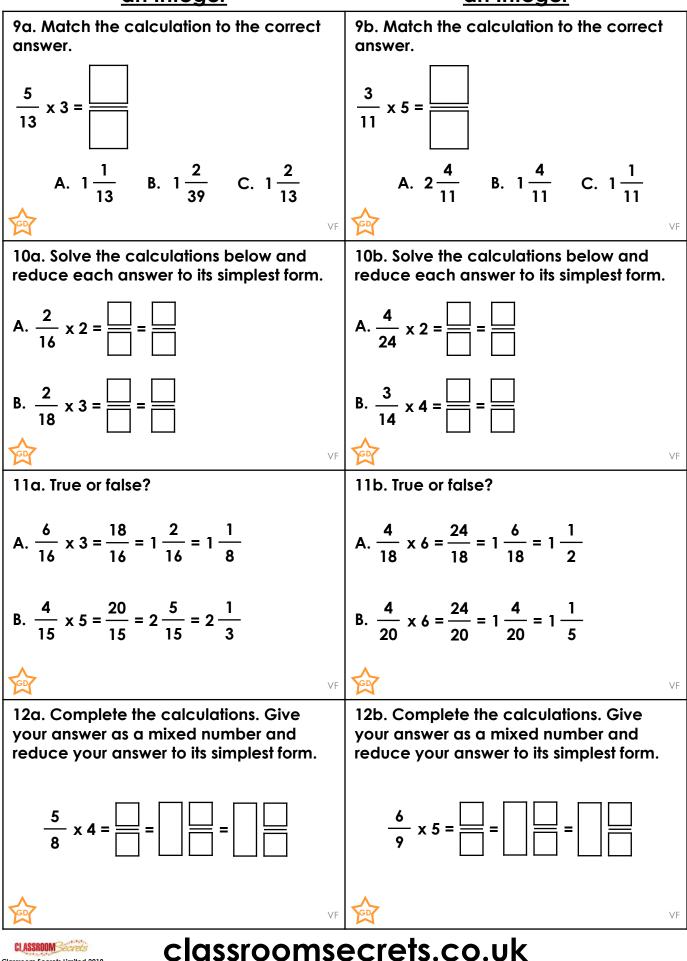
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Varied Fluency – Multiply Non-Unit Fractions by an Integer – Year 5 Expected

# <u>Multiply Non-Unit Fractions by</u> <u>an Integer</u>

# <u>Multiply Non-Unit Fractions by</u> <u>an Integer</u>



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## <u>Varied Fluency</u> <u>Multiply Non-Unit Fractions by an</u> <u>Integer</u>

### Developing

1a. A 2a.  $\frac{8}{9}$ 3a. False. The answer should be  $\frac{10}{13}$ . 4a. A. 2 B. 6

#### **Expected**

5a. B 6a.  $\frac{2}{3}$ 7a. True 8a. A. 1 $\frac{7}{9}$  B. 1 $\frac{1}{14}$ 

### Greater Depth

9a. C 10a. A.  $\frac{4}{16} = \frac{1}{4}$  B.  $\frac{6}{18} = \frac{1}{3}$ 11a. A. True B. False. The answer is  $1\frac{1}{3}$ . 12a.  $\frac{20}{8} = 2\frac{4}{8} = 2\frac{1}{2}$ 

## Varied Fluency Multiply Non-Unit Fractions by an Integer

Developing 1b. C 2b.  $\frac{6}{15}$ 3b. True 4b. A. 3 B. 5 Expected 5b. C 6b.  $\frac{3}{5}$ 7b. False. The answer is  $1 \frac{1}{7}$ . 8b. A.  $1 \frac{5}{16}$  B.  $1 \frac{2}{13}$ Greater Depth 9b. B 10b. A.  $\frac{8}{24} = \frac{1}{3}$  B.  $\frac{12}{14} = \frac{6}{7}$ 

11b. A. False. The answer is  $1\frac{1}{3}$ . B. True 12b.  $\frac{30}{9} = 3\frac{3}{9} = 3\frac{1}{3}$ 

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Varied Fluency – Multiply Non-Unit Fractions by an Integer ANSWERS