Varied Fluency Step 18: Multiply Mixed Numbers by Integers

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>

Differentiation:

Developing Questions to support multiplying mixed numbers by integers. The product of the fractions is within 1. Includes pictorial support.

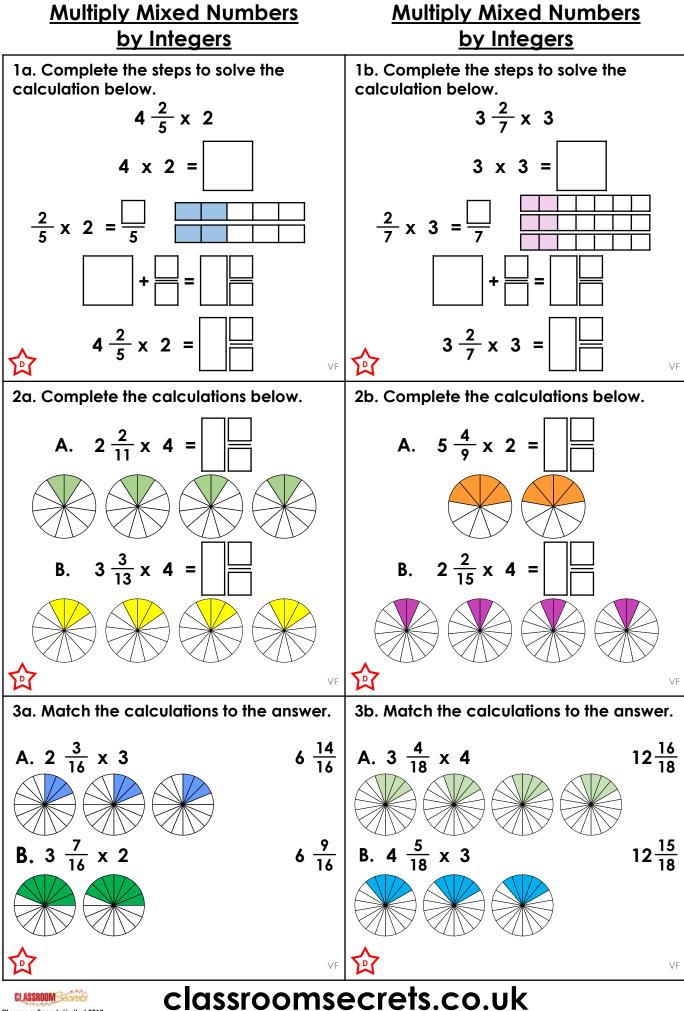
Expected Questions to support multiplying mixed numbers by integers. The product of the fractions exceeds one. Includes some conversion to improper fractions. Some pictorial support.

Greater Depth Questions to support multiplying mixed numbers by integers. The product of the fractions exceeds one. Answers to be simplified using knowledge of equivalent fractions. Includes some conversion to improper fractions. No pictorial support.

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

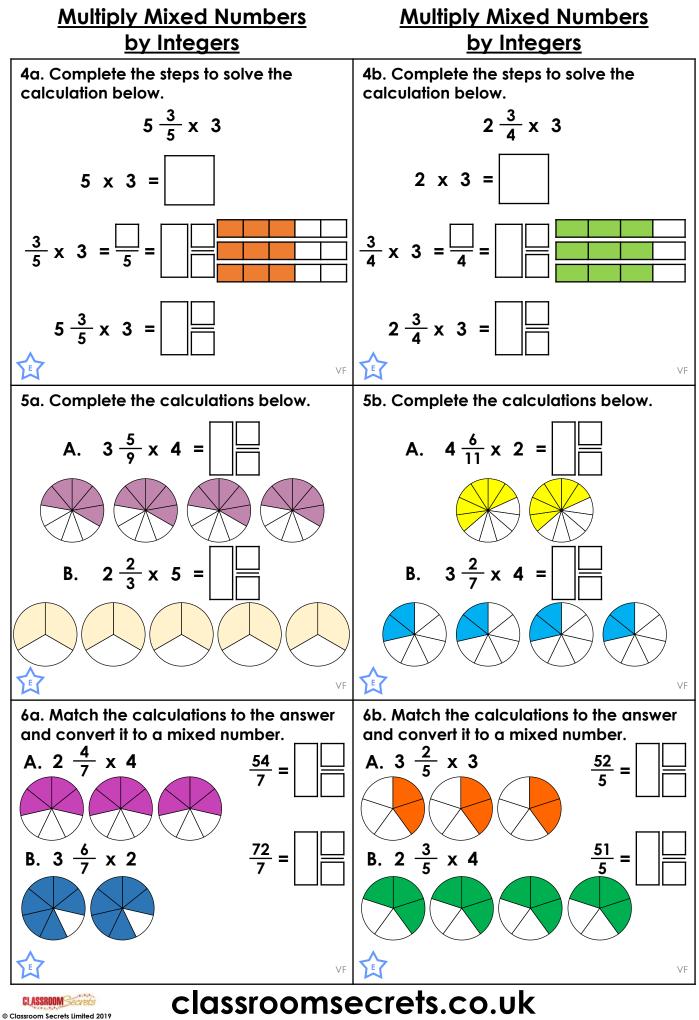
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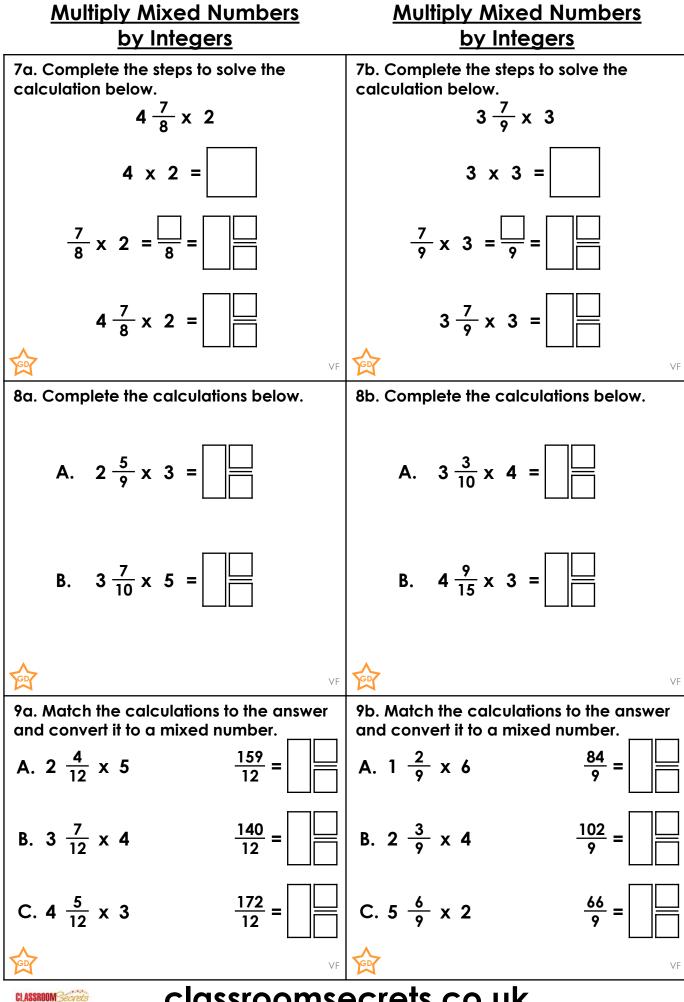


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Varied Fluency – Multiply Mixed Numbers by Integers – Year 5 Developing



Varied Fluency – Multiply Mixed Numbers by Integers – Year 5 Expected



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Varied Fluency – Multiply Mixed Numbers by Integers – Year 5 Greater Depth

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Developing

1a. $8\frac{4}{5}$ 2a. A. $8\frac{8}{11}$; B. $12\frac{12}{13}$ 3a. A. $6\frac{9}{16}$; B. $6\frac{14}{16}$

Expected
4a.
$$16\frac{4}{5}$$

5a. A. $14\frac{2}{9}$; B. $13\frac{1}{3}$
6a. A. $\frac{72}{7} = 10\frac{2}{7}$; B. $\frac{54}{7} = 7\frac{5}{7}$

<u>Developing</u>

1b. $9\frac{6}{7}$ 2b. A. $10\frac{8}{9}$; B. $8\frac{8}{15}$ 3b. A. $12\frac{16}{18}$; B. $12\frac{15}{18}$

Expected
4b.
$$8\frac{1}{4}$$

5b. A. $9\frac{1}{11}$; B. $13\frac{1}{7}$
6b. A. $\frac{51}{5} = 10\frac{1}{5}$; B. $\frac{52}{5} = 10\frac{2}{5}$

Greater Depth
Greater Depth

7a.
$$9\frac{3}{4}$$
7b. $11\frac{1}{3}$

8a. A. $7\frac{2}{3}$; B. $18\frac{1}{2}$
8b. A. $13\frac{1}{5}$; B. $13\frac{4}{5}$

9a. A. $\frac{140}{12} = 11\frac{2}{3}$; B. $\frac{172}{12} = 14\frac{1}{3}$; C. $\frac{159}{12} = 13\frac{1}{4}$
9b. A. $\frac{66}{9} = 7\frac{1}{3}$; B. $\frac{84}{9} = 9\frac{1}{3}$; C. $\frac{102}{9} = 11\frac{1}{3}$



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Varied Fluency – Multiply Mixed Numbers by Integers ANSWERS