# Varied Fluency Step 10: Add Fractions

# National Curriculum Objectives:

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: (5F4) <u>Add and subtract fractions with the same denominator and</u> <u>denominators that are multiples of the same number</u>

# Differentiation:

**Developing** Questions to support adding 2 fractions with sums greater than 1. Denominators are the same or halves or doubles of each other.

Expected Questions to support adding 3 fractions with sums greater than 1. Denominators are multiples of the same number.

Greater Depth Questions to support adding 3 fractions with sums greater than 1. Denominators are not multiples of the same number but have common factors.

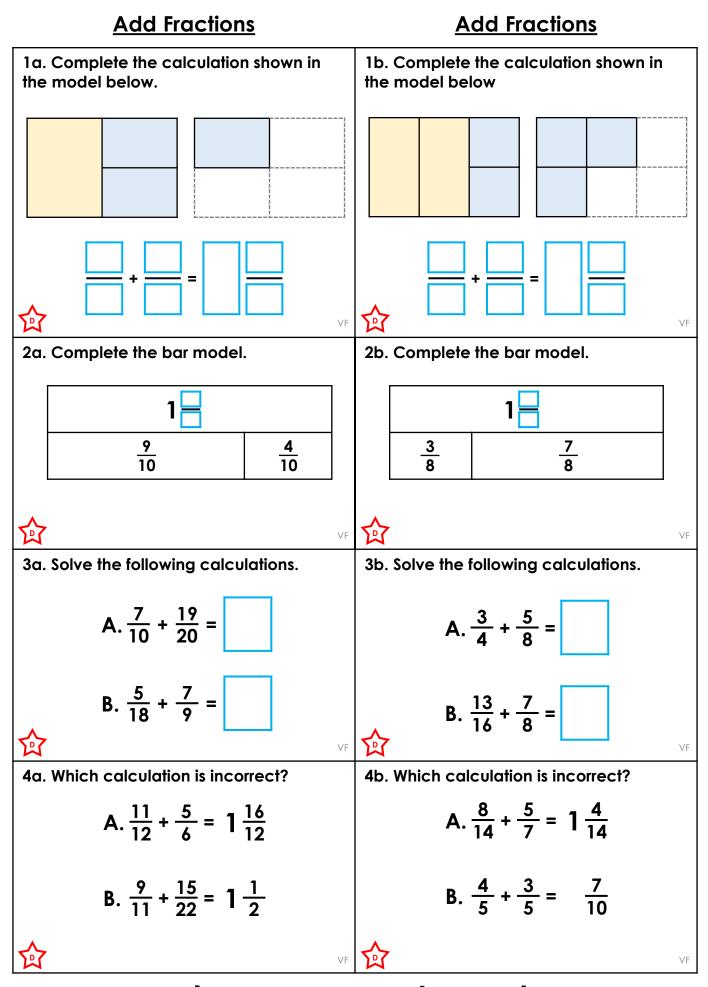
More <u>Year 5 Fractions</u> resources.

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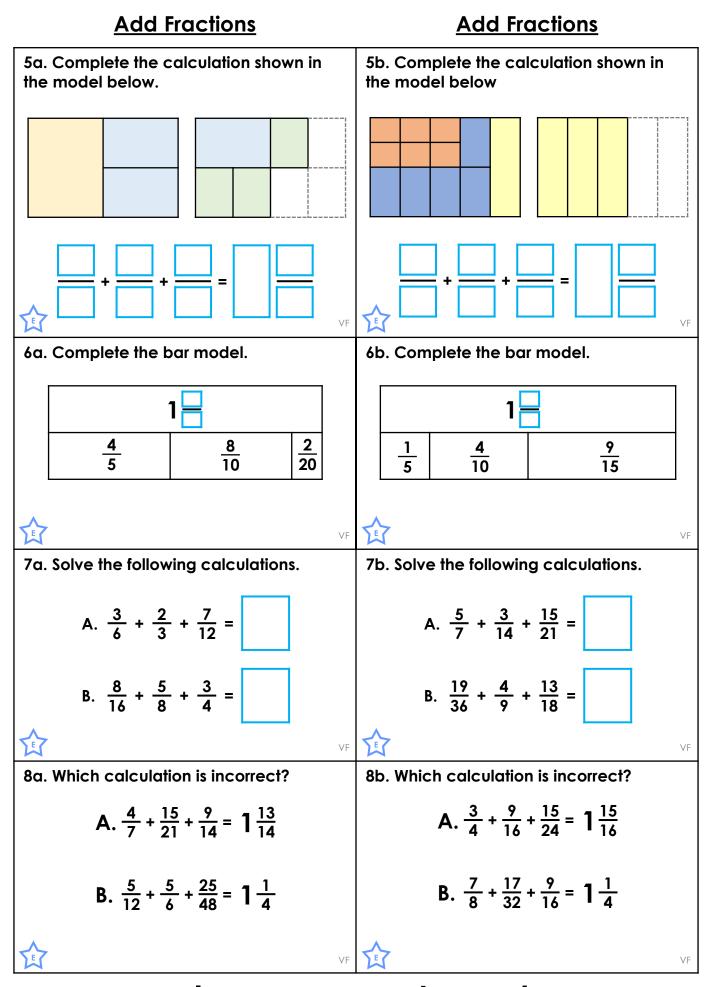
Varied Fluency – Add Fractions – Teaching Information



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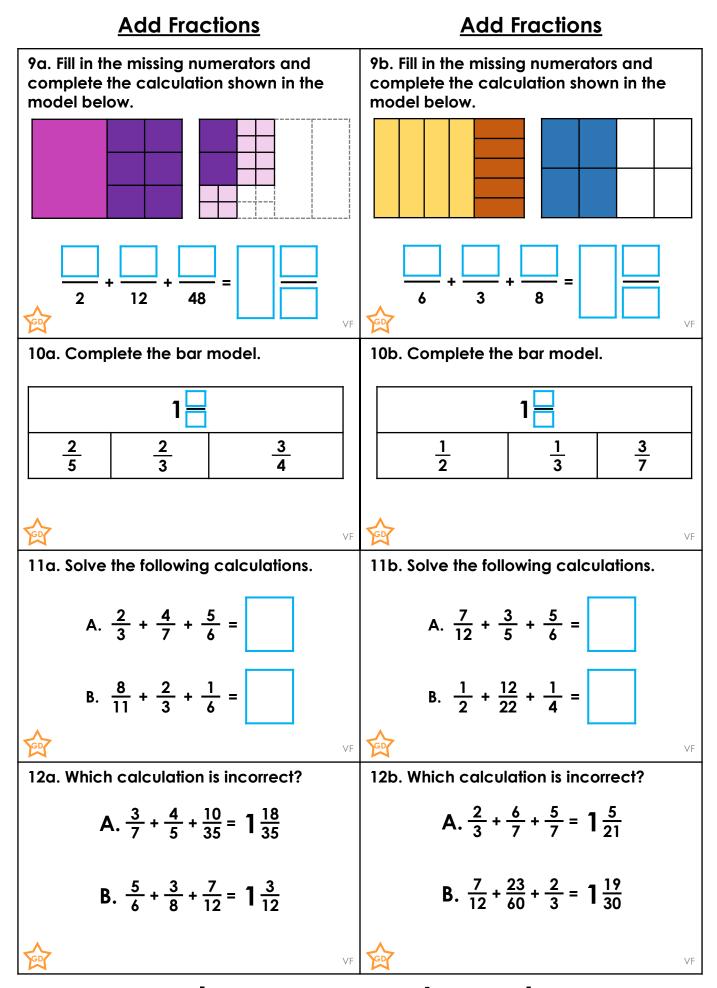
Varied Fluency – Add Fractions – Year 5 Developing



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Varied Fluency – Add Fractions – Year 5 Expected



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Varied Fluency – Add Fractions – Year 5 Greater Depth

### Varied Fluency Add Fractions

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#### Developing

1a.  $\frac{1}{2} + \frac{3}{4} = 1\frac{1}{4}$ 2a.  $1\frac{3}{10}$ 3a.  $A = 1\frac{13}{20}$ ,  $B = 1\frac{1}{18}$ 4a. A is incorrect.  $A = 1\frac{3}{4}$ 

#### **Expected**

5a.  $\frac{1}{2} + \frac{3}{4} + \frac{3}{8} = 1\frac{5}{8}$ 6a.  $1\frac{7}{10}$ 7a.  $A = 1\frac{3}{4}$ ,  $B = 1\frac{7}{8}$ 8a. B is incorrect.  $B = 1\frac{37}{48}$ 

### <u>Greater Depth</u>

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9a.  $\frac{1}{2} + \frac{8}{12} + \frac{12}{48} = 1\frac{5}{12}$ 10a.  $1\frac{49}{60}$ 11a.  $A = 2\frac{1}{14}, B = 1\frac{37}{66}$ 12a. B is incorrect.  $B = 1\frac{19}{24}$  Developing 1b.  $\frac{2}{3} + \frac{5}{6} = 1\frac{1}{2}$ 2b.  $1\frac{1}{4}$ 3b.  $A = 1\frac{3}{8}$ ,  $B = 1\frac{11}{16}$ 4b. B is incorrect.  $B = 1\frac{2}{5}$ 

Expected 5b.  $\frac{6}{20} + \frac{5}{10} + \frac{4}{5} = 1\frac{3}{5}$ 6b.  $1\frac{1}{5}$ 7b.  $A = 1\frac{9}{14}$ ,  $B = 1\frac{25}{36}$ 8b. B is incorrect.  $B = 1\frac{31}{32}$ 

<u>Greater Depth</u> 9b.  $\frac{4}{6} + \frac{1}{3} + \frac{4}{8} = 1\frac{1}{2}$ 10b.  $1\frac{11}{42}$ 11b.  $A = 2\frac{1}{60}$ ,  $B = 1\frac{13}{44}$ 12b. A is incorrect.  $A = 2\frac{5}{21}$ 



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