## 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> denominators that are multiples of the same number

## Differentiation:

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

Expected Questions to support adding 3 fractions with sums greater than 1 where the denominators are all direct multiples of each other.

Greater Depth Questions to support adding 3 fractions with sums greater than 1 where the denominators are not all direct multiples of each other. The lowest common denominator is not provided in the question.

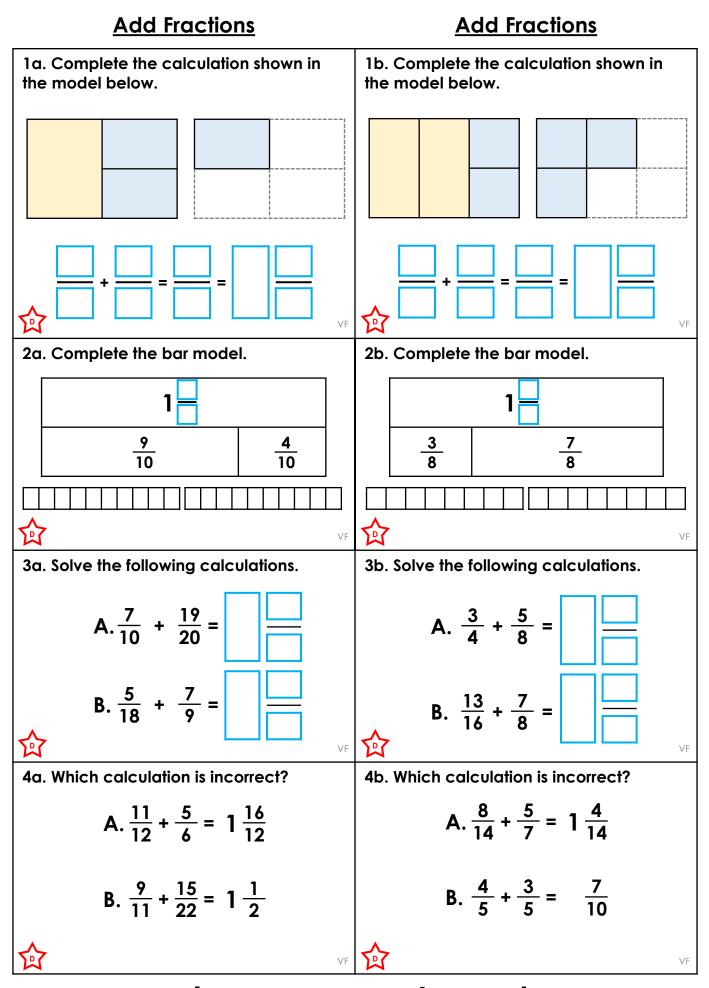
More <u>Year 5 Fractions</u> resources.

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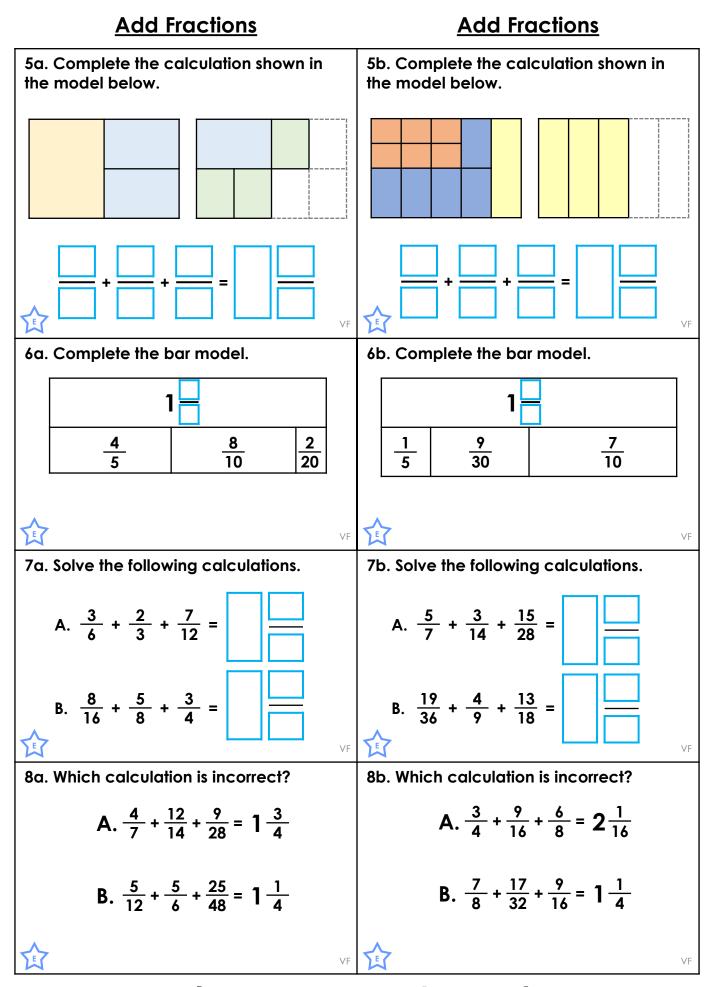
Varied Fluency – Add Fractions – Teaching Information



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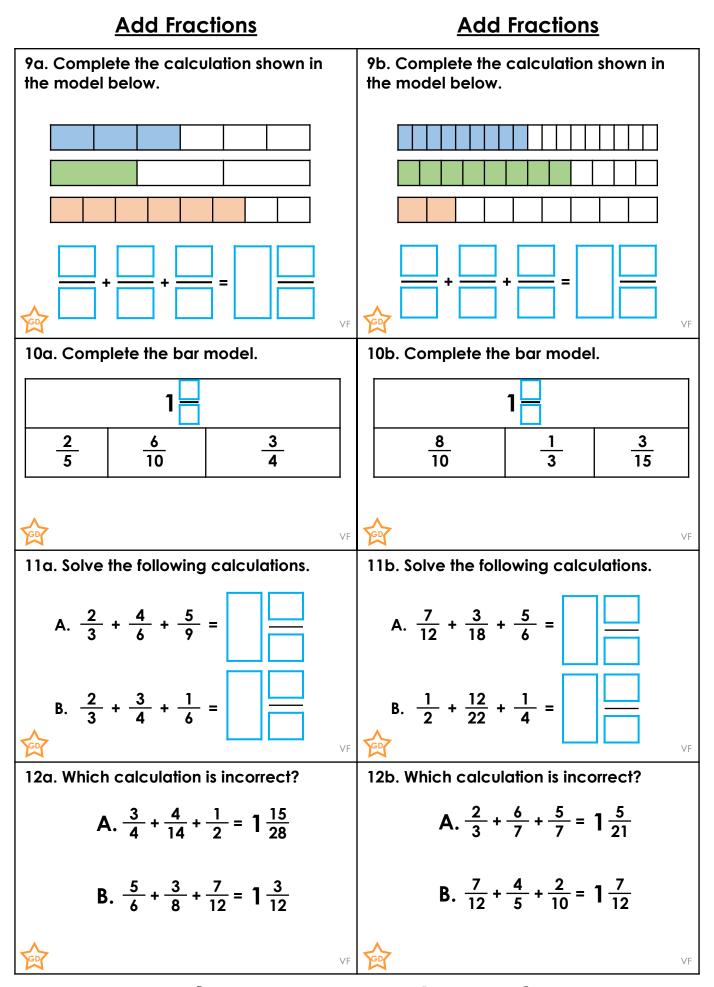
Varied Fluency – Add Fractions – Year 5 Developing



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Varied Fluency – Add Fractions – Year 5 Expected



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Varied Fluency – Add Fractions – Year 5 Greater Depth

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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.  $1\frac{7}{10}$  or  $1\frac{14}{20}$ 7a.  $A = 1\frac{3}{4}$  or  $1\frac{9}{12}$   $B = 1\frac{7}{8}$  or  $1\frac{14}{16}$ 8a. B is incorrect.  $B = 1\frac{37}{48}$ 

<u>Greater Depth</u> 9a.  $\frac{3}{6} + \frac{1}{3} + \frac{6}{8} = 1\frac{7}{12}$ 10a.  $1\frac{3}{4}$ 11a.  $A = 1\frac{8}{9}$ ,  $B = 1\frac{7}{12}$ 12a. B is incorrect.  $B = 1\frac{19}{24}$  <u>Developing</u>

1b.  $\frac{2}{3} + \frac{5}{6} = 1\frac{1}{2}$  or  $1\frac{3}{6}$ 2b.  $1\frac{1}{4}$  or  $1\frac{2}{8}$ 3b.  $A = 1\frac{3}{8}$ ,  $B = 1\frac{11}{16}$ 4b. B is incorrect.  $B = 1\frac{2}{5}$ 

Expected 5b.  $\frac{6}{20} + \frac{5}{10} + \frac{4}{5} = 1 \frac{3}{5}$  or  $1 \frac{12}{20}$ 6b.  $1 \frac{1}{5}$  or  $1 \frac{6}{30}$ 7b.  $A = 1 \frac{13}{28}$ ,  $B = 1 \frac{25}{36}$ 8b. B is incorrect.  $B = 1 \frac{31}{32}$ 

<u>Greater Depth</u> 9b.  $\frac{9}{18} + \frac{8}{12} + \frac{2}{9} = 1\frac{7}{18}$ 10b.  $1\frac{1}{3}$ 11b. A =  $1\frac{7}{12}$ , B =  $1\frac{13}{44}$ 12b. A is incorrect. A =  $2\frac{5}{21}$ 



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