Varied Fluency Step 10: Decimals as Fractions 2

National Curriculum Objectives:

Mathematics Year 5: (5F6a) <u>Read and write decimal numbers as fractions [for example,</u> 0.71 = 71/100] Mathematics Year 5: (5F6b) <u>Recognise and use thousandths and relate them to tenths,</u> hundredths and decimal equivalents

Differentiation:

Developing Questions to support converting fractions and decimals using numbers <1 that are multiples of 5 e.g. 0.35. Includes tenths and hundredths only.

Expected Questions to support converting fractions and decimals e.g. 0.07 and where a decimal may be >1. Includes tenths and hundredths only with some expanded decimal and fraction forms including the use of 0 as a place holder.

Greater Depth Questions to support converting fractions and decimals e.g. 0.07 with decimals >1. Includes tenths and hundredths only with expanded decimal and fraction forms including the use of 0 as a place holder.

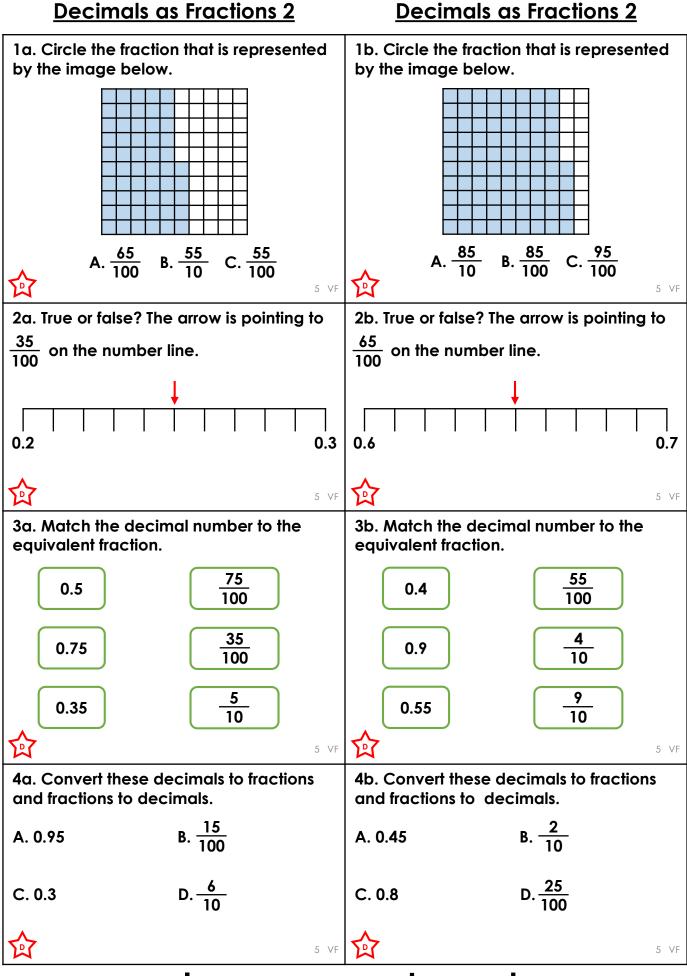
More <u>Year 4 and Year 5 Decimals</u> resources.

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



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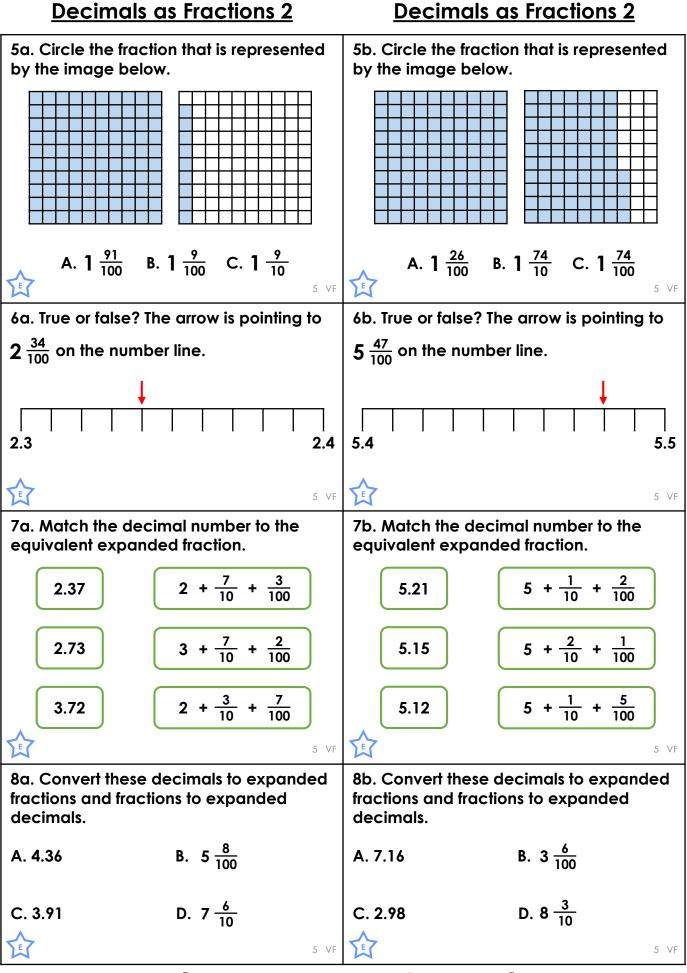
Varied Fluency – Decimals as Fractions 2 – Teaching Information



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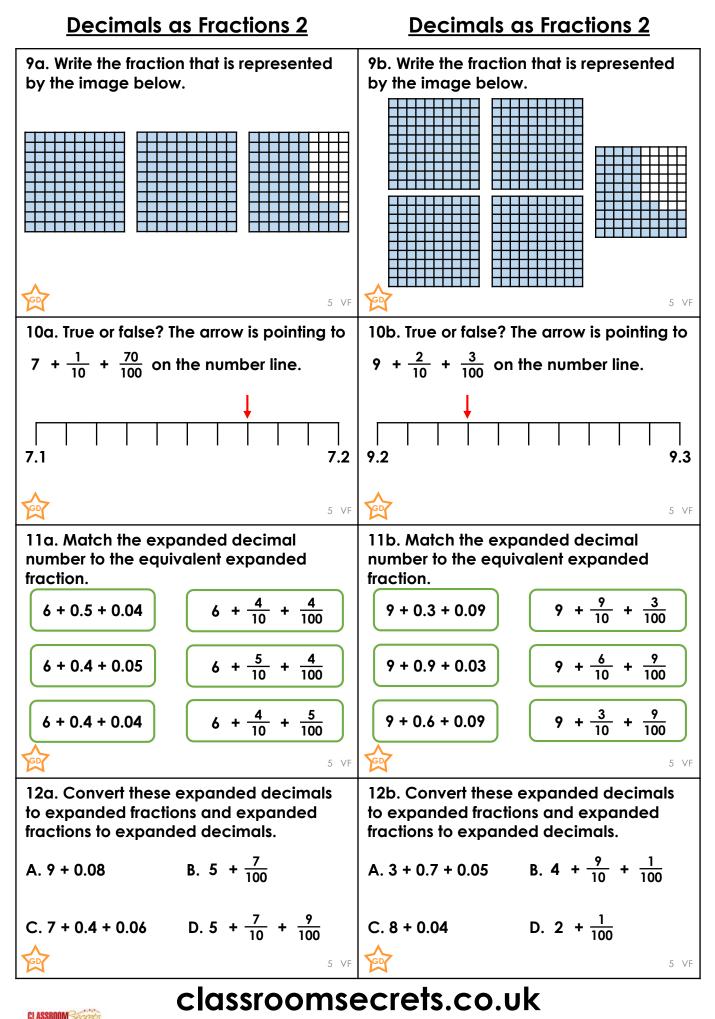
Varied Fluency – Decimals as Fractions 2 – Year 5 Developing



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Varied Fluency – Decimals as Fractions 2 – Year 5 Expected



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Varied Fluency – Decimals as Fractions 2 – Year 5 Greater Depth

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Developing

1a. C 2a. False. The arrow is pointing to $\frac{25}{100}$. 3a. $0.5 = \frac{5}{10}$, $0.75 = \frac{75}{100}$, $0.35 = \frac{35}{100}$ 4a. $A = \frac{95}{100}$, B = 0.15, $C = \frac{3}{10}$, D = 0.6

Expected

5a. <mark>B</mark>

6a. True 7a. 2.37 = 2 + $\frac{3}{10}$ + $\frac{7}{100}$, 2.73 = 2 + $\frac{7}{10}$ + $\frac{3}{100}$, 3.72 = 3 + $\frac{7}{10}$ + $\frac{2}{100}$ 8a. A = 4 + $\frac{3}{10}$ + $\frac{6}{100}$, B = 5 + 0.08 C = 3 + $\frac{9}{10}$ + $\frac{1}{100}$, B = 7 + 0.6

<u>Greater Depth</u> 9a. $2\frac{71}{100}$ 10a. False. The arrow is pointing to 7 + $\frac{1}{10}$ + $\frac{7}{100}$. 11a. $6 + 0.5 + 0.04 = 6 + \frac{5}{10} + \frac{4}{100}$, $6 + 0.4 + 0.05 = 6 + \frac{4}{10} + \frac{5}{100}$, $6 + 0.4 + 0.04 = 6 + \frac{4}{10} + \frac{4}{100}$ 12a. A = 9 + $\frac{8}{100}$, B = 5 + 0.07, C = 7 + $\frac{4}{10}$ + $\frac{6}{100}$, D = 5 + 0.7 + 0.09

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Developing

1b. B 2b. True 3b. $0.4 = \frac{4}{10}$, $0.9 = \frac{9}{10}$, $0.55 = \frac{55}{100}$ 4b. $A = \frac{45}{100}$, B = 0.2, $C = \frac{8}{10}$, D = 0.25

Expected

5b. C 6b. False. The arrow is pointing to $5\frac{48}{100}$. 7b. 5.21 = 5 + $\frac{2}{10}$ + $\frac{1}{100}$, 5.15 = 5 + $\frac{1}{10}$ + $\frac{5}{100}$, 5.12 = 5 + $\frac{1}{10}$ + $\frac{2}{100}$ 8b. A = 7 + $\frac{1}{10}$ + $\frac{6}{100}$, B = 3 + 0.06 C = 2 + $\frac{9}{10}$ + $\frac{8}{100}$, B = 8 + 0.3

Greater Depth 9b. $3\frac{67}{100}$ 10b. True 11b. $9 + 0.3 + 0.09 = 9 + \frac{3}{10} + \frac{9}{100}$, $9 + 0.9 + 0.03 = 9 + \frac{9}{10} + \frac{3}{100}$, $9 + 0.6 + 0.09 = 9 + \frac{6}{10} + \frac{9}{100}$ 12b. $A = 3 + \frac{7}{10} + \frac{5}{100}$, B = 4 + 0.9 + 0.01, $C = 8 + \frac{4}{100}$, D = 2 + 0.01

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