Varied Fluency
Step 2: Decimals as Fractions 1

National Curriculum Objectives:

Mathematics Year 5: (5F6a) Read and write decimal numbers as fractions [for example, 0.71 = 71/100]

Mathematics Year 5: (5F6b) Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

Mathematics Year 5: (5F12) Solve problems which require knowing percentage and decimal equivalents of 1/2 , 1/4 , 1/5 , 2/5 , 4/5 and those fractions with a denominator of a multiple of 10 or 25

Differentiation:

Developing Questions to support converting fractions and decimals. Includes tenths and hundredths only.

Expected Questions to support converting fractions and decimals. Includes tenths, hundredths, half and quarters.

Greater Depth Questions to support converting fractions and decimals. Includes hundredths, half, quarters, fifths and denominators of 25 and 50.
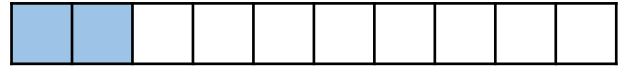
More Year 5 Decimals and Percentages resources.

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

Decimals as Fractions 1

1a. Circle the fraction and decimal which match the picture.

0.3 $\dfrac{30}{100}$ 0.03

VF

1b. Circle the fraction and decimal which match the picture.

0.02 $\dfrac{20}{100}$ 0.2

VF

2a. Match the fractions to their decimal equivalents.

A. $\dfrac{40}{100}$ 0.07

B. $\dfrac{6}{10}$ 0.4

C. $\dfrac{7}{100}$ 0.6

VF

2b. Match the fractions to their decimal equivalents.

A. $\dfrac{9}{100}$ 0.8

B. $\dfrac{8}{10}$ 0.6

C. $\dfrac{60}{100}$ 0.09

VF

3a. Complete the table below.

Fractions	Decimals
$\dfrac{90}{100}$	
	0.5
$\dfrac{8}{10}$	

VF

3b. Complete the table below.

Fractions	Decimals
$\dfrac{40}{100}$	
	0.02
$\dfrac{7}{10}$	

VF

4a. True or false?

$$\dfrac{2}{100} = 0.2$$

VF

4b. True or false?

$$\dfrac{3}{100} = 0.03$$

VF

Decimals as Fractions 1

5a. Circle the fraction and decimal which match the picture.

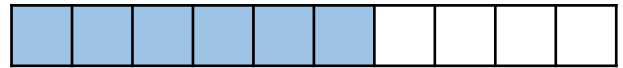| 0.07 | $\dfrac{70}{100}$ | 0.7 | $\dfrac{7}{100}$ |

⭐E   VF

5b. Circle the fraction and decimal which match the picture.

| 0.6 | $\dfrac{6}{100}$ | 0.06 | $\dfrac{60}{100}$ |

⭐E   VF

6a. Match the fractions to their decimal equivalents.

A. $\dfrac{20}{100}$ 0.05

B. $\dfrac{1}{2}$ 0.2

C. $\dfrac{5}{100}$ 0.5

⭐E   VF

6b. Match the fractions to their decimal equivalents.

A. $\dfrac{4}{100}$ 0.04

B. $\dfrac{1}{4}$ 0.4

C. $\dfrac{40}{100}$ 0.25

⭐E   VF

7a. Complete the table below.

Fractions	Decimals
$\dfrac{75}{100}$	
	0.05
$\dfrac{9}{10}$	

⭐E   VF

7b. Complete the table below.

Fractions	Decimals
$\dfrac{50}{100}$	
	0.09
$\dfrac{3}{4}$	

⭐E   VF

8a. True or false?

$$\dfrac{1}{4} = 0.4$$

⭐E   VF

8b. True or false?

$$\dfrac{1}{2} = 0.2$$

⭐E   VF

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Varied Fluency – Decimals as Fractions 1 – Year 5 Expected

Decimals as Fractions 1

9a. Circle the fraction and decimal which match the picture.

| 0.7 | $\frac{75}{100}$ | 0.75 | $\frac{7}{100}$ |

VF

9b. Circle the fraction and decimal which match the picture.

| 0.25 | $\frac{20}{100}$ | 0.2 | $\frac{25}{100}$ |

VF

10a. Match the fractions to their decimal equivalents.

A. $\frac{4}{5}$ 0.48

B. $\frac{12}{25}$ 0.4

C. $\frac{20}{50}$ 0.8

VF

10b. Match the fractions to their decimal equivalents.

A. $\frac{40}{50}$ 0.6

B. $\frac{3}{5}$ 0.44

C. $\frac{11}{25}$ 0.8

VF

11a. Complete the table below.

Fractions	Decimals
$\frac{7}{25}$	
	0.25
$\frac{25}{50}$	

VF

11b. Complete the table below.

Fractions	Decimals
$\frac{15}{50}$	
	0.75
$\frac{1}{5}$	

VF

12a. True or false?

$$\frac{2}{5} = 0.25$$

VF

12b. True or false?

$$\frac{9}{25} = 0.9$$

VF

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Varied Fluency – Decimals as Fractions 1 – Year 5 Greater Depth

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Developing

1a. $\dfrac{30}{100}$, 0.3

2a. A = 0.4, B = 0.6, C = 0.07

3a. 0.9, $\dfrac{5}{10}$, 0.8

4a. False, the correct answer is: $\dfrac{2}{100}$ = 0.02

Developing

1b. $\dfrac{20}{100}$, 0.2

2b. A = 0.09, B = 0.8, C = 0.6

3b. 0.4, $\dfrac{2}{100}$, 0.7

4b. True

Expected

5a. $\dfrac{70}{100}$, 0.7

6a. A = 0.2, B = 0.5, C = 0.05

7a. 0.75, $\dfrac{5}{100}$, 0.9

8a. False, the correct answer is: $\dfrac{1}{4}$ = 0.25

Expected

5b. $\dfrac{60}{100}$, 0.6

6b. A = 0.04, B = 0.25, C = 0.4

7b. 0.5, $\dfrac{9}{100}$, 0.75

8b. False, the correct answer is: $\dfrac{1}{2}$ = 0.5

Greater Depth

11a. $\dfrac{75}{100}$, 0.75

12a. A = 0.8, B = 0.48, C = 0.4

13a. 0.28, $\dfrac{25}{100}$ or $\dfrac{1}{4}$, 0.5

14a. False, the correct answer is: $\dfrac{2}{5}$ = 0.4

Greater Depth

11b. $\dfrac{25}{100}$, 0.25

12b. A = 0.8, B = 0.6, C = 0.44

13b. 0.3, $\dfrac{75}{100}$ or $\dfrac{3}{4}$, 0.2

14b. False the correct answer is: $\dfrac{9}{25}$ = 0.36

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