Varied Fluency
Step 10: Equivalent FDP

National Curriculum Objectives:

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 the understanding of equivalent fractions, decimals and percentages. Includes half, tenths and hundredths only.
Expected Questions to support the understanding of equivalent fractions, decimals and percentages. Includes half, quarters, fifths and denominators of a multiple of 10 or 25.
Greater Depth Questions to support the understanding of equivalent fractions, decimals and percentages. Includes half, quarters, fifths and denominators of a multiple of 5, 10 and 25.

More Year 5 Decimals and Percentages resources.

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

Equivalent FDP

Equivalent FDP

1a. Match the equivalent fractions, decimals and percentages.

60%   50%

$\frac{4}{10}$ $\frac{6}{10}$

0.5   0.4

1b. Match the equivalent fractions, decimals and percentages.

70%   30%

$\frac{3}{10}$ $\frac{1}{10}$

0.1   0.7

2a. Circle the equivalent fraction, decimal and percentage.

| 0.2 | 40% | $\frac{8}{10}$ |
| 0.8 | $\frac{70}{100}$ | 80% |

2b. Circle the equivalent fraction, decimal and percentage.

| 0.9 | 90% | $\frac{1}{2}$ |
| 0.6 | $\frac{9}{10}$ | 40% |

3a. True or false?

$$\frac{35}{100} > 0.3$$

3b. True or false?

$$\frac{65}{100} = 0.6$$

4a. Complete the table below.

Fractions	Decimals	Percentages
	0.1	
$\frac{1}{2}$		
		85%

4b. Complete the table below.

Fractions	Decimals	Percentages
	0.8	
$\frac{2}{10}$		
		45%

Equivalent FDP	Equivalent FDP

5a. Match the equivalent fractions, decimals and percentages.

75%   30%

$\dfrac{1}{5}$ $\dfrac{3}{4}$

0.3   0.2

⭐E   VF

5b. Match the equivalent fractions, decimals and percentages.

50%   20%

$\dfrac{5}{20}$ $\dfrac{1}{2}$

0.2   0.25

⭐E   VF

6a. Circle the equivalent fraction, decimal and percentage.

0.6   50% $\dfrac{3}{5}$

0.35 $\dfrac{1}{6}$ 60%

⭐E   VF

6b. Circle the equivalent fraction, decimal and percentage.

0.4   20% $\dfrac{3}{4}$

0.25 $\dfrac{2}{5}$ 40%

⭐E   VF

7a. True or false?

$$\dfrac{30}{50} > 0.3$$

⭐E   VF

7b. True or false?

$$\dfrac{10}{40} = 0.4$$

⭐E   VF

8a. Complete the table below. Write the missing fractions in their simplest form.

Fractions	Decimals	Percentages
	0.9	
$\dfrac{1}{25}$		
		25%

⭐E   VF

8b. Complete the table below. Write the missing fractions in their simplest form.

Fractions	Decimals	Percentages
	0.7	
$\dfrac{10}{50}$		
		75%

⭐E   VF

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Varied Fluency – Equivalent FDP – Year 5 Expected

Equivalent FDP

9a. Match the equivalent fractions, decimals and percentages.

40%   4%

$\dfrac{6}{25}$ $\dfrac{12}{30}$

0.04   0.24

VF

Equivalent FDP

9b. Match the equivalent fractions, decimals and percentages.

75%   6%

$\dfrac{4}{25}$ $\dfrac{60}{80}$

0.06   0.16

VF

10a. Circle the equivalent fraction, decimal and percentage.

0.25	28%	$\dfrac{20}{80}$
0.2	$\dfrac{2}{5}$	25%

VF

10b. Circle the equivalent fraction, decimal and percentage.

0.5	40%	$\dfrac{1}{4}$
0.24	$\dfrac{35}{70}$	50%

VF

11a. True or false?

$$\dfrac{9}{15} < 0.6$$

VF

11b. True or false?

$$\dfrac{12}{25} > 0.5$$

VF

12a. Complete the table below. Write the missing fractions in their simplest form.

Fractions	Decimals	Percentages
	0.05	
$\dfrac{27}{90}$		
		9%

VF

12b. Complete the table below. Write the missing fractions in their simplest form.

Fractions	Decimals	Percentages
	0.17	
$\dfrac{42}{70}$		
		6%

VF

Varied Fluency – Equivalent FDP – Year 5 Greater Depth

Varied Fluency
Equivalent FDP

Varied Fluency
Equivalent FDP

Developing

1a. 60% and $\frac{6}{10}$, $\frac{4}{10}$ and 0.4, 0.5 and 50%

2a. $\frac{8}{10}$, 0.8 and 80%

3a. True

4a. $\frac{1}{10}$ = 0.1 = 10%, $\frac{1}{2}$ = 0.5 = 50%, $\frac{85}{100}$, 0.85 = 85%

Developing

1b. 70% and 0.7, $\frac{3}{10}$ and 0.3, 0.1 and $\frac{1}{10}$

2b. $\frac{9}{10}$, 0.9 and 90%

3b. False, $\frac{65}{100}$ > 0.6

4b. $\frac{8}{10}$ = 0.8 = 80%, $\frac{2}{10}$ = 0.2 = 20%, $\frac{45}{100}$ = 0.45 = 45%

Expected

5a. 75% and $\frac{3}{4}$, $\frac{1}{5}$ and 0.2, 0.3 and 30%

6a. $\frac{3}{5}$, 0.6 and 60%

7a. True

8a. $\frac{9}{10}$ = 0.9 = 90%, $\frac{1}{25}$ = 0.04 = 4%, $\frac{1}{4}$ = 0.25 = 25%

Expected

5b. 50% and $\frac{1}{2}$, $\frac{5}{20}$ and 0.25, 0.2 and 20%

6b. $\frac{2}{5}$, 0.4 and 40%

7b. False, $\frac{10}{40}$ < 0.4

8b. $\frac{7}{10}$ = 0.7 = 70%, $\frac{10}{50}$ = 0.2 = 20%, $\frac{3}{4}$ = 0.75 = 75%

Greater Depth

9a. 40% and $\frac{12}{30}$, $\frac{6}{25}$ and 0.24, 0.04 and 4%

10a. $\frac{20}{80}$, 0.25 and 25%

11a. False, $\frac{9}{15}$ = 0.6

12a. $\frac{5}{100}$ = 0.05 = 5%, $\frac{27}{90}$ = 0.3 = 30%, $\frac{9}{100}$ = 0.09 = 9%

Greater Depth

9b. 75% and $\frac{60}{80}$, $\frac{4}{25}$ and 0.16, 0.06 and 6%

10b. $\frac{35}{70}$, 0.5 and 50%

11b. False, $\frac{12}{25}$ < 0.5

12b. $\frac{17}{100}$ = 0.17 = 17%, $\frac{42}{70}$ = 0.6 = 60%, $\frac{6}{100}$ = 0.06 = 6%

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Varied Fluency – Equivalent FDP ANSWERS