Varied Fluency
Step 2: Equivalent FDP

National Curriculum Objectives:

Mathematics Year 6: (6F6) Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]
Mathematics Year 6: (6F11) Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

Differentiation:

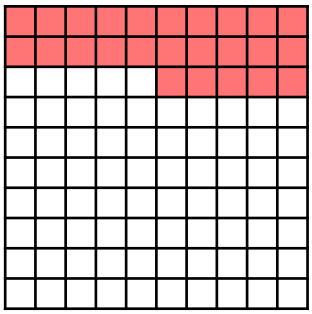
Developing Questions to support finding equivalent fractions, decimals and percentages. Using tenths, quarters and halves. Fractions may need to be simplified.
Expected Questions to support finding equivalent fractions, decimals and percentages. Using fifths, eighths, tenths, hundredths, quarters and halves. Fractions may need to be simplified.
Greater Depth Questions to support finding equivalent fractions, decimals and percentages. Using fifths, eighths tenths, twentieths, hundredths, quarters and halves. Fractions need to be simplified.

More Year 6 Percentages resources.

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

Equivalent FDP

1a. Use the shaded part of the 100 square to write an equivalent fraction, decimal and percentage.



D VF

2a. Fill in the missing numbers.

$\frac{\square}{10} = \square = 90\%$

D VF

3a. Convert the following decimals to their equivalent percentages and fractions.

Display each fraction in its simplest form.

A) 0.1

B) 0.5

C) 0.25

D VF

4a. Convert the percentages to their equivalent fractions and decimals.

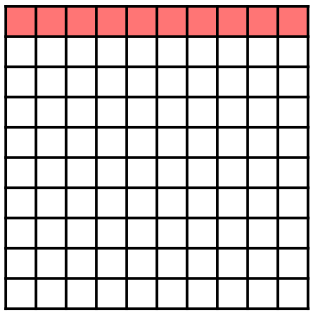
A) 80%

B) 20%

D VF

Equivalent FDP

1b. Use the shaded part of the 100 square to write an equivalent fraction, decimal and percentage.



D VF

2b. Fill in the missing numbers.

$\frac{\square}{2} = \square = 50\%$

D VF

3b. Convert the following decimals to their equivalent percentages and fractions.

Display each fraction in its simplest form.

A) 0.3

B) 0.75

C) 0.9

D VF

4b. Convert the percentages to their equivalent fractions and decimals.

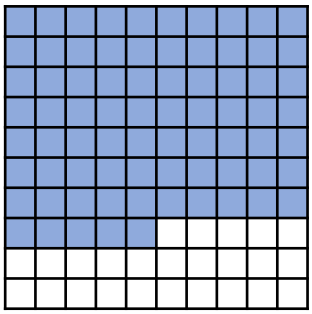
A) 40%

B) 25%

D VF

Equivalent FDP

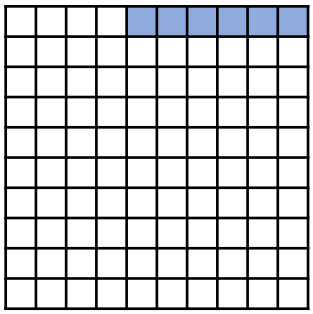
5a. Use the shaded part of the 100 square to write an equivalent fraction, decimal and percentage.



E VF

Equivalent FDP

5b. Use the shaded part of the 100 square to write an equivalent fraction, decimal and percentage.



E VF

6a. Fill in the missing numbers.

$$\frac{\square}{5} = \frac{\square}{} = 60\%$$

E VF

6b. Fill in the missing numbers.

$$\frac{\square}{100} = \frac{\square}{} = 11\%$$

E VF

7a. Convert the following decimals to their equivalent percentages and fractions.

Display each fraction in its simplest form.

A) 0.125

B) 0.2

C) 0.6

E VF

7b. Convert the following decimals to their equivalent percentages and fractions.

Display each fraction in its simplest form.

A) 0.375

B) 0.8

C) 0.48

E VF

8a. Convert the percentages to their equivalent fractions and decimals.

Display each fraction in its simplest form.

A) 1%

B) 40%

E VF

8b. Convert the percentages to their equivalent fractions and decimals.

Display each fraction in its simplest form.

A) 20%

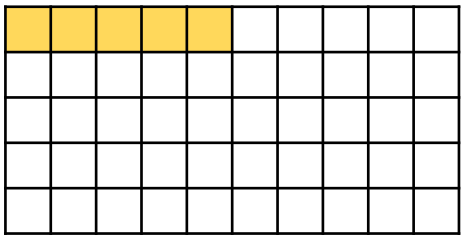
B) 37.5%

E VF

Equivalent FDP

9a. Use the shaded part of the square to write an equivalent fraction, decimal and percentage.

Display your fraction in its simplest form.



GD VF

10a. Fill in the missing numbers.

$$\frac{\square}{20} = \square = 85\%$$

GD VF

11a. Convert the following decimals to their equivalent percentages and fractions.

Display each fraction in its simplest form.

A) 0.375

B) 0.09

C) 0.35

GD VF

12a. Convert the percentages to their equivalent fractions and decimals.

Display each fraction in its simplest form.

A) 95%

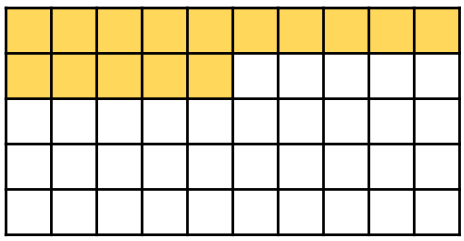
B) 65%

GD VF

Equivalent FDP

9b. Use the shaded part of the square to write an equivalent fraction, decimal and percentage.

Display your fraction in its simplest form.



GD VF

10b. Fill in the missing numbers.

$$\frac{\square}{8} = \square = 87.5\%$$

GD VF

11b. Convert the following decimals to their equivalent percentages and fractions.

Display each fraction in its simplest form.

A) 0.03

B) 0.65

C) 0.12

GD VF

12b. Convert the percentages to their equivalent fractions and decimals.

Display each fraction in its simplest form.

A) 12.5%

B) 55%

GD VF

Varied Fluency
Equivalent FDP

Developing

1a. $\frac{1}{4}$, 0.25, 25%

2a. $\frac{9}{10}$, 0.9

3a. A) $\frac{1}{10}$, 10%

B) $\frac{1}{2}$, 50%

C) $\frac{1}{4}$, 25%

4a. A) $\frac{8}{10}$, 0.8

B) $\frac{20}{100} = \frac{2}{10} = \frac{1}{5} = 0.2$

Expected

5a. $\frac{3}{4}$, 0.75, 75%

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

7a. A) $\frac{1}{8}$, 12.5%

B) $\frac{1}{5}$, 20%

C) $\frac{3}{5}$, 60%.

8a. A) $\frac{1}{100}$, 0.01

B) $\frac{2}{5}$, 0.4

Greater Depth

9a. $\frac{1}{10}$, 0.1, 10%

10a. $\frac{17}{20}$, 0.85

11a. A) $\frac{3}{8}$, 37.5%

B) $\frac{9}{100}$, 9%

C) $\frac{7}{20}$, 35%

12a. A) $\frac{19}{20}$, 0.95

B) $\frac{13}{20}$, 0.65

Varied Fluency
Equivalent FDP

Developing

1b. $\frac{1}{10}$, 0.1, 10%

2b. $\frac{1}{2}$, 0.5

3b. A) $\frac{3}{10}$, 30%

B) $\frac{3}{4}$, 75%

C) $\frac{9}{10}$, 90%

4b. A) $\frac{4}{10}$, 0.4

B) $\frac{1}{4}$, 0.25

Expected

5b. $\frac{6}{100}$, 0.06, 6%

6b. $\frac{11}{100}$, 0.11

7b. A) $\frac{3}{8}$, 37.5%

B) $\frac{4}{5}$, 80%

C) $\frac{48}{100} = \frac{12}{25}$, 48%

8b. A) $\frac{1}{5}$, 0.2

B) $\frac{3}{8}$, 0.375

Greater Depth

9b. $\frac{3}{10}$, 0.3, 30%

10b. $\frac{7}{8}$, 0.875

11b. A) $\frac{3}{100}$, 3%

B) $\frac{13}{20}$, 65%

C) $\frac{12}{100} = \frac{3}{25}$, 12%

12b. A) $\frac{1}{8}$, 0.125

B) $\frac{11}{20}$, 0.55