

# Varied Fluency

## Step 3: Equivalent Fractions 2

### National Curriculum Objectives:

Mathematics Year 4: (4F2) [Recognise and show, using diagrams, families of common equivalent fractions](#)

### Differentiation:

**Developing** Questions to support the understanding of equivalent fractions. Includes doubling the starting fraction only.

**Expected** Questions to support the understanding of equivalent fractions. Includes denominators which are multiples of the starting fraction.

**Greater Depth** Questions to support the understanding of equivalent fractions. Includes denominators which share a common factor.

More [Year 4 Fractions](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

## Equivalent Fractions 2

1a. Complete the diagrams to show a fraction equivalent to  $\frac{1}{3}$ .

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VF

## Equivalent Fractions 2

1b. Complete the diagrams to show a fraction equivalent to  $\frac{1}{2}$ .

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VF

2a. Complete the missing numbers in the calculation below.

$$\frac{1}{5} \begin{array}{c} \xrightarrow{\boxed{x \ 2}} \\ = \\ \xrightarrow{\boxed{x \ 2}} \end{array} \frac{\boxed{\phantom{00}}}{10}$$



VF

2b. Complete the missing numbers in the calculation below.

$$\frac{1}{3} \begin{array}{c} \xrightarrow{\boxed{x \ 2}} \\ = \\ \xrightarrow{\boxed{x \ 2}} \end{array} \frac{2}{\boxed{\phantom{00}}}$$



VF

3a. Circle the fraction which is equivalent to  $\frac{1}{2}$ .

$$\frac{2}{3} \quad \frac{1}{4} \quad \frac{2}{4}$$



VF

3b. Circle the fraction which is equivalent to  $\frac{1}{4}$ .

$$\frac{2}{5} \quad \frac{2}{8} \quad \frac{1}{8}$$



VF

4a. Complete the fraction so that it is equivalent to  $\frac{1}{7}$ .

$$\frac{2}{\boxed{\phantom{00}}}$$

I multiplied the numerator by \_\_\_\_ .  
I multiplied the denominator by \_\_\_\_ .



VF

4b. Complete the fraction so that it is equivalent to  $\frac{1}{6}$ .

$$\frac{\boxed{\phantom{00}}}{12}$$

I multiplied the numerator by \_\_\_\_ .  
I multiplied the denominator by \_\_\_\_ .



VF

## Equivalent Fractions 2

5a. Complete the diagrams to show fractions equivalent to  $\frac{1}{4}$ .

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VF

## Equivalent Fractions 2

5b. Complete the diagrams to show fractions equivalent to  $\frac{1}{3}$ .

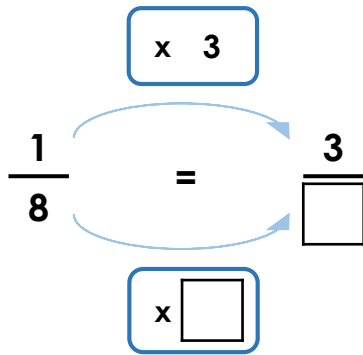
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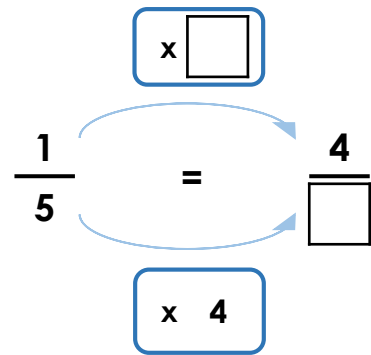
VF

6a. Complete the missing numbers in the calculation below.



VF

6b. Complete the missing numbers in the calculation below.



VF

7a. Circle the fractions which are equivalent to  $\frac{1}{3}$ .

$\frac{2}{6}$        $\frac{4}{10}$        $\frac{4}{12}$   
 $\frac{3}{9}$        $\frac{3}{6}$



VF

7b. Circle the fractions which are equivalent to  $\frac{1}{5}$ .

$\frac{4}{20}$        $\frac{3}{8}$        $\frac{2}{10}$   
 $\frac{3}{15}$        $\frac{4}{12}$



VF

8a. Write a fraction which is equivalent to  $\frac{1}{5}$ .


I multiplied the numerator by \_\_\_\_ .  
 I multiplied the denominator by \_\_\_\_ .



VF

8b. Write a fraction which is equivalent to  $\frac{1}{4}$ .


I multiplied the numerator by \_\_\_\_ .  
 I multiplied the denominator by \_\_\_\_ .



VF

## Equivalent Fractions 2

9a. Complete the diagrams to show fractions equivalent to  $\frac{2}{6}$ .




VF

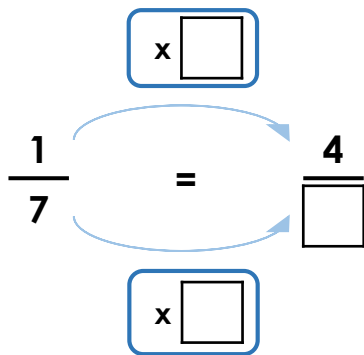
## Equivalent Fractions 2

9b. Complete the diagrams to show fractions equivalent to  $\frac{2}{12}$ .



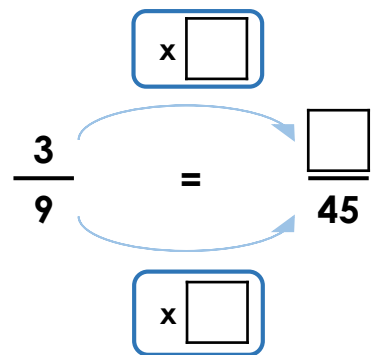

VF

10a. Complete the missing numbers in the calculation below.



VF

10b. Complete the missing numbers in the calculation below.



VF

11a. Circle the fractions which are equivalent to  $\frac{4}{28}$ .

- $\frac{5}{35}$        $\frac{1}{8}$        $\frac{3}{21}$   
 $\frac{6}{30}$        $\frac{2}{14}$



VF

11b. Circle the fractions which are equivalent to  $\frac{3}{27}$ .

- $\frac{4}{36}$        $\frac{6}{30}$        $\frac{5}{45}$   
 $\frac{2}{18}$        $\frac{2}{26}$



VF

12a. Write two fractions equivalent to  $\frac{12}{20}$ .

	I multiplied the numerator by ____.
	I multiplied the denominator by ____.
	I divided the numerator by ____.
	I divided the denominator by ____.



VF

12b. Write two fractions equivalent to  $\frac{2}{10}$ .

	I multiplied the numerator by ____.
	I multiplied the denominator by ____.
	I divided the numerator by ____.
	I divided the denominator by ____.



VF

## Varied Fluency Equivalent Fractions 2

### Developing

1a.  $\frac{1}{3} = \frac{2}{6}$

2a. 2

3a.  $\frac{2}{4}$

4a.  $\frac{2}{14}$ , multiply by 2

### Expected

5a.  $\frac{1}{4} = \frac{2}{8} = \frac{3}{12}$

6a. multiply by 3, 24

7a.  $\frac{2}{6}$ ,  $\frac{3}{9}$  and  $\frac{4}{12}$

8a. Various answers, for example:

$\frac{2}{10}$ , multiply by 2;  $\frac{3}{15}$ , multiply by 3

### Greater Depth

9a.  $\frac{1}{3} = \frac{3}{9} = \frac{6}{18}$

10a. multiply by 4, 28

11a.  $\frac{5}{35}$ ,  $\frac{3}{21}$  and  $\frac{2}{14}$

12a. Various answers, for example:

$\frac{3}{5}$ , divide by 4;  $\frac{24}{40}$ , multiply by 2

## Varied Fluency Equivalent Fractions 2

### Developing

1b.  $\frac{1}{2} = \frac{2}{4}$

2b. 6

3b.  $\frac{2}{8}$

4b.  $\frac{2}{12}$ , multiply by 2

### Expected

5b.  $\frac{1}{3} = \frac{2}{6} = \frac{3}{9}$

6b. multiply by 4, 20

7b.  $\frac{2}{10}$ ,  $\frac{3}{15}$  and  $\frac{4}{20}$

8b. Various answers, for example:

$\frac{2}{8}$ , multiply by 2;  $\frac{3}{12}$ , multiply by 3

### Greater Depth

9b.  $\frac{1}{6} = \frac{3}{18} = \frac{4}{24}$

10b. multiply by 5, 15

11b.  $\frac{4}{36}$ ,  $\frac{5}{45}$  and  $\frac{2}{18}$

12b. Various answers, for example:

$\frac{4}{20}$ , multiply by 2;  $\frac{1}{5}$ , divide by 2