# Homework/Extension
# Step 2: Equivalent Fractions 1

## National Curriculum Objectives:

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

## Differentiation:

**Questions 1, 4 and 7 (Varied Fluency)**
**Developing** Find equivalent fractions where denominators are doubled or halved using pictorial support.
**Expected** Find equivalent fractions where denominators are direct multiples of each other using pictorial support.
**Greater Depth** Find equivalent fractions where denominators share a common factor using pictorial support.

**Questions 2, 5 and 8 (Varied Fluency)**
**Developing** Match images of equivalent fractions where denominators are doubled or halved.
**Expected** Match fractions and an equivalent image where denominators are direct multiples of each other. Suggest an equivalent fraction for the remaining image.
**Greater Depth** Match fractions and an equivalent image where denominators share a common factor. Suggest an equivalent fraction for the remaining fraction.

**Questions 3, 6 and 9 (Reasoning and Problem Solving)**
**Developing** Use the statements to identify which fraction is the equivalent to a given fraction where denominators are doubled or halved.
**Expected** Use the statements to identify which fraction is the equivalent to a given fraction where denominators are direct multiples of each other.
**Greater Depth** Use the statements to identify possible equivalent fractions where denominators 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 1

**1. Use the bar models to help you find the equivalent fractions.**

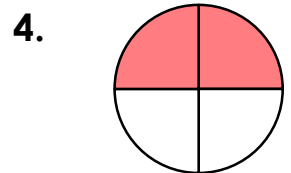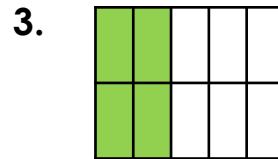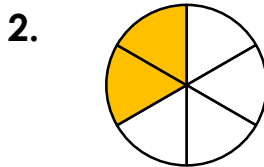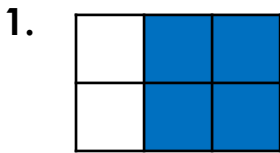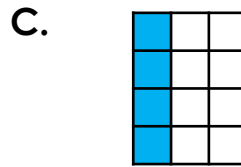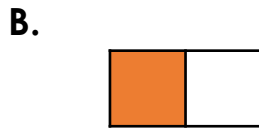$$A. \frac{2}{8} = \frac{\square}{\square} \qquad B. \frac{2}{4} = \frac{\square}{\square} \qquad C. \frac{8}{8} = \frac{\square}{\square}$$

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**2. Match each shaded fraction to the equivalent shaded fraction.**

A.

B.

C.

D.

1.

2.

3.

4.

VF
HW/Ext

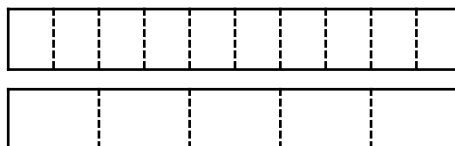**3. Fay and Andrew are discussing Naomi's fraction which is written below.**
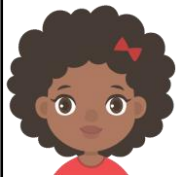
I think $\frac{4}{5}$ is an equivalent fraction.

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

I think $\frac{2}{5}$ is an equivalent fraction.

**Fay**

**Andrew**

Who is correct? Explain how you know.

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**Homework/Extension – Equivalent Fractions 1 – Year 4 Developing**

# Equivalent Fractions  1

**4. Use the bar models to help you find the equivalent fractions.**

A. $\dfrac{1}{4} = \dfrac{\square}{\square}$

B. $\dfrac{9}{12} = \dfrac{\square}{\square}$
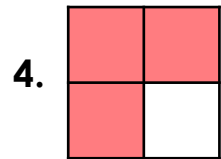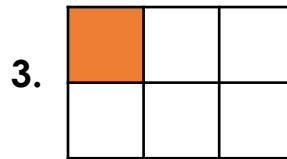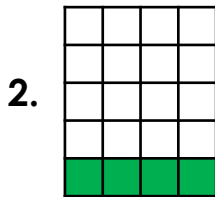
C. $\dfrac{2}{4} = \dfrac{\square}{\square}$

**5. Match each fraction to the equivalent shaded fraction.**

A. $\dfrac{2}{3}$

B. $\dfrac{2}{12}$

C. $\dfrac{1}{5}$

1.     2.     3.     4.

**Which image is the odd one out? Write an equivalent fraction for it.**

**6. Anwar and Alisha are discussing Matilda's fraction which is written below.**

Anwar: "My denominator is twice that of Matilda's. My numerator is the same as Matilda's."

$\dfrac{1}{2}$

Alisha: "My numerator is four times bigger than Matilda's and my denominator is twice that of Anwar's."

**Anwar**

**Alisha**

**Whose fraction is equivalent to Matilda's? Explain how you know.**

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**Homework/Extension – Equivalent Fractions  1 – Year 4 Expected**

# Equivalent Fractions  1

**7. Use the bar model to help you find the equivalent fractions.**

A. $\dfrac{1}{2} = \dfrac{\square}{\square}$     B. $\dfrac{3}{24} = \dfrac{\square}{\square}$     C. $\dfrac{10}{12} = \dfrac{\square}{\square}$



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**8. Match each fraction to the equivalent shaded fraction.**
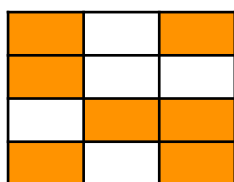
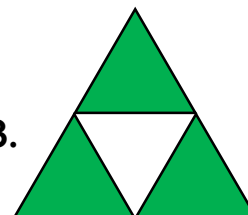A. $\dfrac{1}{3}$     B. $\dfrac{6}{8}$     C. $\dfrac{14}{24}$     D. $\dfrac{12}{15}$

1.      2.      3. 

**Which fraction is the odd one out? Write an equivalent fraction for it.**

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**9. Timmy, Poppy and Hollie each have different equivalent fractions.**

> The denominator in my fraction is 21.

**Timmy**

> My numerator is five less than my denominator. My denominator is six less than Timmy's.

**Poppy**

> The numerator and denominator in my fraction are both even numbers.

**Hollie**

**What are each of their fractions? Explain how you know.**

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Homework/Extension – Equivalent Fractions  1 – Year 4 Greater Depth

## Developing

1. A. $\frac{1}{4}$ ; B. $\frac{4}{8}$ ; C. $\frac{4}{4}$

2. A. 3; B. 4; C. 2; D. 1

3. Andrew is correct because he has halved the numerator and the denominator to find the equivalent fraction of $\frac{2}{5}$. Fay's fraction would be equivalent to $\frac{8}{10}$.

## Expected

4. A. $\frac{3}{12}$ ; B. $\frac{3}{4}$ ; C. $\frac{6}{12}$

5. A. 1; B. 3; C. 2

4 is the odd one out. Various equivalent fractions, for example: $\frac{6}{8}$.

6. Alisha's fraction is equivalent to Matilda's because she has $\frac{4}{8}$ . Anwar's fraction is $\frac{1}{4}$ which is not equivalent to $\frac{1}{2}$ .

## Greater Depth

7. A. $\frac{12}{24}$ ; B. $\frac{1}{8}$ ; C. $\frac{20}{24}$

8. A. 2; B. 3; C. 1

D is the odd one out. Various equivalent fractions, for example: $\frac{4}{5}$ .

9. Timmy: $\frac{14}{21}$ ; Poppy: $\frac{10}{15}$ ; Hollie: various answers where the numerator and denominator are even numbers, for example: $\frac{4}{6}$ .