

## Equivalent Fraction Worksheet Questions and Answers PDF

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### Part 1: Building a Foundation

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**Which of the following fractions is equivalent to  $\frac{1}{2}$ ?**

*Hint: Think about fractions that represent the same value.*

- A)  $\frac{2}{3}$
- C)  $\frac{2}{4}$  ✓
- D)  $\frac{3}{5}$
- C)  $\frac{3}{4}$

■ The correct answer is  $\frac{2}{4}$ , as it simplifies to  $\frac{1}{2}$ .

**Select all fractions that are equivalent to  $\frac{3}{6}$ .**

*Hint: Look for fractions that can be simplified to the same value.*

- A)  $\frac{1}{2}$  ✓
- C)  $\frac{3}{9}$
- D)  $\frac{6}{12}$  ✓
- C)  $\frac{2}{4}$  ✓

■ The correct answers are  $\frac{1}{2}$ ,  $\frac{2}{4}$ , and  $\frac{6}{12}$ .

**Explain in your own words what it means for two fractions to be equivalent.**

*Hint: Consider how fractions can represent the same part of a whole.*

Two fractions are equivalent if they represent the same value or proportion.

List two fractions equivalent to  $\frac{4}{8}$ .

Hint: Think about simplifying the fraction or finding other fractions that represent the same value.

1. First equivalent fraction:

$\frac{1}{2}$

2. Second equivalent fraction:

$\frac{2}{4}$

Two equivalent fractions could be  $\frac{1}{2}$  and  $\frac{2}{4}$ .

What is the simplest form of the fraction  $\frac{8}{12}$ ?

Hint: Simplify the fraction by finding the greatest common divisor.

- A)  $\frac{2}{3}$  ✓
- C)  $\frac{4}{6}$
- D)  $\frac{1}{2}$
- C)  $\frac{3}{4}$

The simplest form of  $\frac{8}{12}$  is  $\frac{2}{3}$ .

## Part 2: Understanding and Application

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If you multiply the numerator and denominator of  $\frac{5}{7}$  by 3, what is the resulting fraction?

Hint: Remember that multiplying both parts of a fraction by the same number keeps it equivalent.

- A)  $\frac{15}{21}$  ✓
- C)  $\frac{8}{11}$
- D)  $\frac{5}{21}$
- C)  $\frac{10}{14}$

The resulting fraction is  $\frac{15}{21}$ .

Which of the following statements are true about equivalent fractions?

Hint: Consider the properties of fractions and their values.

- A) They have different decimal values.
- C) They can be simplified to the same fraction. ✓
- D) They have different numerators and denominators.
- C) They represent the same point on a number line. ✓

The true statements are B) They represent the same point on a number line and C) They can be simplified to the same fraction.

Describe how you would use a number line to show that  $\frac{1}{3}$  and  $\frac{2}{6}$  are equivalent.

Hint: Think about how fractions are represented on a number line.

You would show that both fractions land on the same point on the number line.

You have a recipe that calls for  $\frac{3}{4}$  cup of sugar. If you only have a  $\frac{1}{2}$  cup measuring cup, how many  $\frac{1}{2}$  cups do you need to use to get the equivalent amount of sugar?

Hint: Think about how many times  $\frac{1}{2}$  fits into  $\frac{3}{4}$ .

- A) 1
- C) 2
- D) 3
- C) 1.5 ✓

■ You need to use 1.5 of the  $\frac{1}{2}$  cups to equal  $\frac{3}{4}$  cup.

### Part 3: Analysis, Evaluation, and Creation

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**Which fraction is NOT equivalent to  $\frac{6}{9}$ ?**

Hint: Identify the fraction that does not simplify to the same value.

- A)  $\frac{2}{3}$
- C)  $\frac{4}{6}$
- D)  $\frac{3}{5}$  ✓
- C)  $\frac{12}{18}$

■ The fraction that is NOT equivalent to  $\frac{6}{9}$  is  $\frac{3}{5}$ .

**Which of the following pairs of fractions are equivalent?**

Hint: Look for pairs that simplify to the same value.

- A)  $\frac{7}{14}$  and  $\frac{1}{2}$  ✓
- C)  $\frac{5}{10}$  and  $\frac{3}{6}$  ✓
- D)  $\frac{8}{16}$  and  $\frac{1}{2}$  ✓
- C)  $\frac{9}{12}$  and  $\frac{3}{4}$  ✓

■ The equivalent pairs are A)  $\frac{7}{14}$  and  $\frac{1}{2}$ , B)  $\frac{9}{12}$  and  $\frac{3}{4}$ , and D)  $\frac{8}{16}$  and  $\frac{1}{2}$ .

**Analyze the fractions  $\frac{2}{5}$  and  $\frac{4}{10}$ . Are they equivalent? Justify your answer with calculations.**

Hint: Consider simplifying both fractions to see if they are equal.

2/5 is not equivalent to 4/10, as 4/10 simplifies to 2/5.

**Which of the following strategies is best for finding equivalent fractions?**

*Hint: Think about operations that maintain the value of a fraction.*

- A) Adding the same number to the numerator and denominator
- C) Subtract the same number from the numerator and denominator
- D) Dividing the numerator and denominator by different numbers
- B) Multiplying the numerator and denominator by the same number ✓

The best strategy is B) Multiplying the numerator and denominator by the same number.

**Evaluate the following scenarios and select the ones where equivalent fractions are correctly used.**

*Hint: Check if the fractions can be simplified to the same value.*

- A)  $3/9 = 1/3$  ✓
- C)  $4/8 = 2/5$
- D)  $5/15 = 1/3$
- B)  $6/12 = 1/2$  ✓

The correct scenarios are A)  $3/9 = 1/3$  and B)  $6/12 = 1/2$ .

**Create a real-world problem that involves finding equivalent fractions, and provide a solution to your problem.**

*Hint: Think about situations where fractions are used in daily life.*

**| An example could be a recipe that requires adjusting measurements.**

**Given the fraction  $7/14$ , create two different equivalent fractions and explain the process you used to find them.**

*Hint: Consider multiplying or dividing the numerator and denominator.*

1. First equivalent fraction:

**|  $1/2$**

2. Second equivalent fraction:

**|  $14/28$**

**| Two equivalent fractions could be  $1/2$  and  $14/28$ , found by simplifying or scaling.**