

## Equivalent Fraction Worksheet

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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)  $\frac{3}{4}$

**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)  $\frac{2}{4}$

**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.*

**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:

2. Second equivalent fraction:

**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)  $\frac{3}{4}$

## 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)  $\frac{10}{14}$

**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.

**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 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

### 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)  $\frac{12}{18}$

**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  $\frac{3}{4}$

**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.*

**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
- C) 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)  $5/15 = 1/3$
- C)  $6/12 = 1/2$

**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.*

**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:

2. Second equivalent fraction: