

## Fraction Comparison Worksheet Questions and Answers PDF

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### Part 1: Building a Foundation

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**What is the numerator in the fraction  $\frac{3}{4}$ ?**

*Hint: Identify the top number in the fraction.*

- A) 3 ✓
- B) 4
- C) 7
- D) 1

■ The numerator is the number above the fraction line.

**Which of the following are components of a fraction?**

*Hint: Select all that apply.*

- A) Numerator ✓
- B) Denominator ✓
- C) Quotient
- D) Dividend

■ A fraction consists of a numerator and a denominator.

**Explain the process of simplifying the fraction  $\frac{8}{12}$ .**

*Hint: Consider the greatest common divisor.*

**To simplify, divide both the numerator and denominator by their greatest common divisor.**

**Provide two equivalent fractions for  $\frac{1}{2}$ .**

*Hint: Multiply the numerator and denominator by the same number.*

1. First equivalent fraction

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

2. Second equivalent fraction

**$\frac{3}{6}$**

**Equivalent fractions can be found by multiplying both parts of the fraction by the same number.**

## Part 2: Comprehension and Application

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**Which fraction is larger:  $\frac{2}{3}$  or  $\frac{3}{4}$ ?**

*Hint: Compare the two fractions.*

- A)  $\frac{2}{3}$
- B)  $\frac{3}{4}$  ✓
- C) They are equal
- D) Cannot be determined

To determine which fraction is larger, you can find a common denominator or convert them to decimals.

To compare  $\frac{1}{4}$  and  $\frac{3}{8}$ , which common denominator could you use?

Hint: Look for a number that both denominators can divide into.

- A) 4
- B) 8 ✓
- C) 12
- D) 16

A common denominator is a multiple of both denominators.

Describe how you would place the fractions  $\frac{1}{3}$  and  $\frac{2}{5}$  on a number line.

Hint: Consider the values of the fractions.

To place fractions on a number line, identify their decimal equivalents or find a common denominator.

If a recipe calls for  $\frac{3}{4}$  cup of sugar and you only have a  $\frac{1}{2}$  cup measuring cup, how many times do you need to fill it?

Hint: Think about how many halves fit into three-quarters.

- A) 1
- B) 1.5 ✓
- C) 2
- D) 2.5

You need to fill the  $\frac{1}{2}$  cup measuring cup 1.5 times to get  $\frac{3}{4}$  cup of sugar.

You have a rope that is  $\frac{12}{16}$  meters long. Which of the following is the simplified length of the rope?

Hint: Simplify the fraction to its lowest terms.

- A)  $\frac{3}{4}$  meters ✓
- B)  $\frac{6}{8}$  meters
- C)  $\frac{1}{2}$  meters
- D)  $\frac{2}{3}$  meters

■ The simplified length of the rope is  $\frac{3}{4}$  meters.

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

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**Which of the following fractions is not equivalent to  $\frac{4}{6}$ ?**

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

- A)  $\frac{2}{3}$  ✓
- B)  $\frac{8}{12}$
- C)  $\frac{6}{9}$
- D)  $\frac{3}{5}$

■ The fraction that is not equivalent to  $\frac{4}{6}$  is  $\frac{3}{5}$ .

**Using cross-multiplication, determine which fraction is larger:  $\frac{5}{7}$  or  $\frac{6}{8}$ .**

Hint: Cross-multiply the fractions to compare them.

- A)  $\frac{5}{7}$  ✓
- B)  $\frac{6}{8}$
- C) They are equal
- D) Cannot be determined

■ Cross-multiplication shows that  $\frac{5}{7}$  is larger than  $\frac{6}{8}$ .

**Analyze the fractions  $\frac{7}{9}$  and  $\frac{8}{10}$  by converting them to a common denominator and determine which is larger.**

Hint: Find a common denominator and compare the fractions.

After converting to a common denominator, you can compare the two fractions to see which is larger.

**Which strategy is most efficient for comparing the fractions  $\frac{5}{6}$  and  $\frac{7}{8}$ ?**

*Hint: Consider the methods available for comparison.*

- A) Finding a common denominator
- B) Cross-multiplication ✓
- C) Converting to decimals
- D) Using a number line

Cross-multiplication is often the most efficient method for comparing fractions.

**Create a fraction that is equivalent to  $\frac{3}{5}$  and has a denominator of 20.**

*Hint: Multiply the numerator and denominator by the same number.*

- A)  $\frac{12}{20}$  ✓
- B)  $\frac{15}{20}$  ✓
- C)  $\frac{9}{20}$
- D)  $\frac{10}{20}$

The equivalent fraction is  $\frac{12}{20}$  or  $\frac{15}{20}$ .

**Evaluate the following scenario: You have two pieces of fabric, one measuring  $\frac{5}{8}$  meters and the other  $\frac{3}{4}$  meters. Which piece is longer, and by how much?**

*Hint: Compare the two fractions to determine the longer piece.*

**To evaluate, convert both fractions to a common denominator or decimal to compare their lengths.**