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# Fraction Simplification Worksheet Questions and Answers PDF

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## Part 1: Building a Foundation

**What is the numerator in the fraction 3/4?**

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

○ **A) 3** ✓
○ B) 4
○ C) 7
○ D) 1

| The numerator is the top number of the fraction.

**Which of the following are proper fractions?**

*Hint: A proper fraction has a numerator smaller than its denominator.*

☐ **A) 5/8** ✓
☐ B) 9/9
☐ C) 7/3
☐ **D) 2/5** ✓

| Proper fractions have numerators less than their denominators.

**Explain what it means for two fractions to be equivalent.**

*Hint: Think about how fractions can represent the same value.*

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> **Two fractions are equivalent if they represent the same part of a whole.**

**List the steps to simplify a fraction.**

*Hint: Consider the process of finding the GCD.*

1. Step 1

> Find the GCD of the numerator and denominator.

2. Step 2

> Divide both the numerator and denominator by the GCD.

3. Step 3

> Write the simplified fraction.

> To simplify a fraction, find the GCD of the numerator and denominator and divide both by it.

## Part 2: comprehension

**Which fraction is in its simplest form?**

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*Hint: Look for a fraction that cannot be reduced further.*

○ A) 6/9
○ B) 4/10
○ **C) 5/7 ✓**
○ D) 8/12

┃ A fraction is in simplest form when the numerator and denominator have no common factors other than 1.

**Which of the following fractions can be simplified by dividing both the numerator and the denominator by 2?**

*Hint: Look for fractions with even numbers.*

☐ **A) 10/16 ✓**
☐ **B) 9/12 ✓**
☐ **C) 7/14 ✓**
☐ **D) 15/20 ✓**

┃ Fractions with even numerators and denominators can be simplified by dividing by 2.

**Describe how you would determine if a fraction is in its simplest form.**

*Hint: Consider the factors of the numerator and denominator.*

┃ **To determine if a fraction is in simplest form, check if the numerator and denominator share any common factors.**

## Part 3: Application

**Simplify the fraction 18/24. What is the result?**

*Hint: Find the GCD and divide both numbers.*

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○ **A) 3/4** ✓
○ B) 2/3
○ C) 6/8
○ D) 9/12

> The simplified form of 18/24 is 3/4.

**Which of the following are equivalent to 1/2?**

*Hint: Look for fractions that represent the same value.*

☐ **A) 2/4** ✓
☐ **B) 3/6** ✓
☐ **C) 4/8** ✓
☐ **D) 5/10** ✓

> Equivalent fractions to 1/2 have the same value when simplified.

**Convert the improper fraction 11/4 into a mixed number.**

*Hint: Divide the numerator by the denominator.*

> **The mixed number for 11/4 is 2 3/4.**

## Part 4: Analyzing Relationships

**Which fraction is greater: 3/5 or 2/3?**

*Hint: Compare the two fractions by finding a common denominator.*

○ **A) 3/5** ✓
○ B) 2/3
○ C) They are equal

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◯ D) Cannot be determined

> To compare fractions, find a common denominator or convert them to decimals.

**Analyze the following fractions and select those that are not in simplest form.**

*Hint: Look for fractions that can be reduced.*

☐ **A) 12/16 ✓**
☐ B) 5/7
☐ **C) 14/21 ✓**
☐ **D) 9/15 ✓**

> Fractions that can be simplified further are not in simplest form.

**Explain how you would determine the greatest common divisor (GCD) of two numbers.**

*Hint: Consider the factors of both numbers.*

> **The GCD is the largest number that divides both numbers without leaving a remainder.**

## Part 5: Evaluation and Creation

**Which of the following statements is true about the fraction 8/12?**

*Hint: Consider whether the fraction can be simplified.*

◯ A) It is already in simplest form.
◯ **B) It can be simplified to 2/3. ✓**
◯ C) It can be simplified to 4/6.
◯ D) It cannot be simplified.

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The fraction 8/12 can be simplified to 2/3.

**Evaluate the following statements and select those that correctly describe equivalent fractions.**

*Hint: Look for fractions that represent the same value.*

- [ ] **A) 1/3 and 2/6 are equivalent.** ✓
- [ ] **B) 3/4 and 6/8 are equivalent.** ✓
- [ ] **C) 5/10 and 1/2 are equivalent.** ✓
- [ ] **D) 7/9 and 14/18 are equivalent.** ✓

Equivalent fractions are fractions that represent the same part of a whole.

**Create a real-world scenario where simplifying fractions would be necessary and explain how you would solve it.**

*Hint: Think about situations involving measurements or sharing.*

**A real-world scenario could involve cooking or dividing items, where simplifying fractions helps in understanding proportions.**

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