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Fraction Simplification Worksheet Answer Key PDF

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Part 1: Building a Foundation

What is the numerator in the fraction 3/4?

undefined. A) 3 ✓

undefined. B) 4

undefined. C) 7

undefined. D) 1

The numerator is the top number of the fraction.

Which of the following are proper fractions?

undefined. A) 5/8 ✓

undefined. B) 9/9

undefined. C) 7/3

undefined. D) 2/5 ✓

Proper fractions have numerators less than their denominators.

Explain what it means for two fractions to be equivalent.

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

List the steps to simplify a fraction.

1. Step 1
Find the GCD of the numerator and denominator.

2. Step 2
Divide both the numerator and denominator by the GCD.

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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?

undefined. A) 6/9
undefined. B) 4/10
undefined. C) 5/7 ✓
undefined. 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?

undefined. A) 10/16 ✓

undefined. B) 9/12 ✓

undefined. C) 7/14 ✓

undefined. 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.

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?

undefined. A) 3/4 ✓

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undefined. B) 2/3
undefined. C) 6/8
undefined. D) 9/12

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

Which of the following are equivalent to 1/2?

undefined. A) 2/4 ✓
undefined. B) 3/6 ✓
undefined. C) 4/8 ✓
undefined. D) 5/10 ✓

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

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

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

Part 4: Analyzing Relationships

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

undefined. A) 3/5 ✓
undefined. B) 2/3
undefined. C) They are equal
undefined. 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.

undefined. A) 12/16 ✓
undefined. B) 5/7
undefined. C) 14/21 ✓
undefined. D) 9/15 ✓

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

Explain how you would determine the greatest common divisor (GCD) of two 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?

undefined. A) It is already in simplest form.

undefined. B) It can be simplified to 2/3. ✓

undefined. C) It can be simplified to 4/6.

undefined. D) It cannot be simplified.

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

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

undefined. A) 1/3 and 2/6 are equivalent. ✓

undefined. B) 3/4 and 6/8 are equivalent. ✓

undefined. C) 5/10 and 1/2 are equivalent. ✓

undefined. 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.

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

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