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Reducing Fractions 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 components of a fraction?

undefined. A) Numerator ✓

undefined. B) Denominator ✓

undefined. C) Quotient

undefined. D) Dividend

A fraction consists of a numerator and a denominator.

Explain what it means for a fraction to be in its simplest form.

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

List two methods for finding the greatest common divisor (GCD) of two numbers.

1. Method 1

Listing factors

2. Method 2

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Euclidean algorithm

Common methods include listing factors and using the Euclidean algorithm.

Why is it important to simplify fractions?

undefined. A) To make them look nicer

undefined. B) To make calculations easier ✓

undefined. C) To change their value

undefined. D) To increase their size

Simplifying fractions makes calculations easier and helps in comparing fractions.

Part 2: Comprehension and Application

Which of the following fractions are in their simplest form?

undefined. A) 4/8

undefined. B) 5/7 ✓

undefined. C) 10/20

undefined. D) 3/9

Fractions that cannot be simplified further are in their simplest form.

Describe the process of using prime factorization to find the GCD of two numbers.

Prime factorization involves breaking down each number into its prime factors and identifying the common factors.

What is the simplified form of the fraction 18/24?

undefined. A) 3/4 ✓

undefined. B) 2/3

undefined. C) 6/8

undefined. D) 9/12

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

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Which of the following fractions can be simplified to 1/2?

undefined. A) 2/4 ✓

undefined. B) 3/6 ✓

undefined. C) 4/8 ✓

undefined. D) 5/10 ✓

Fractions that can be simplified to 1/2 have numerators and denominators that are both divisible by the same number.

Apply the Euclidean algorithm to find the GCD of 56 and 98, and use it to simplify the fraction 56/98.

The GCD of 56 and 98 is 14, and the simplified form of 56/98 is 4/7.

Part 3: Analysis, Evaluation, and Creation

Which of the following steps is NOT necessary when simplifying a fraction?

undefined. A) Find the GCD

undefined. B) Divide both numerator and denominator by the GCD

undefined. C) Multiply the numerator by 2 ✓

undefined. D) Check if the fraction is in simplest form

Multiplying the numerator by 2 is not necessary when simplifying a fraction.

Analyze the fractions below and identify which are equivalent to 2/3.

undefined. A) 4/6 ✓

undefined. B) 6/9 ✓

undefined. C) 8/12 ✓

undefined. D) 10/15 ✓

Fractions equivalent to 2/3 have the same value when simplified.

Analyze the fraction 45/60 and explain the steps to simplify it, including finding the GCD.

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To simplify 45/60, find the GCD (which is 15) and divide both the numerator and denominator by 15 to get 3/4.

If a fraction is simplified incorrectly, what is the most likely mistake?

undefined. A) Using the wrong numerator

undefined. B) Not finding the correct GCD ✓

undefined. C) Adding the numerator and denominator

undefined. D) Multiplying the numerator by the denominator

The most likely mistake is not finding the correct GCD.

Evaluate the following statements and select those that are true about simplifying fractions.

undefined. A) Simplifying a fraction changes its value.

undefined. B) A fraction can have multiple simplest forms.

undefined. C) Simplifying a fraction makes it easier to compare with others. ✓

undefined. D) The simplest form of a fraction is unique. ✓

True statements about simplifying fractions include that it does not change their value and that the simplest form is unique.

Create a real-world scenario where simplifying fractions would be necessary, and explain how you would simplify a given fraction in that context.

A real-world scenario could involve cooking measurements, where simplifying fractions helps in adjusting recipes.

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