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Simplify Fractions Worksheet Answer Key PDF

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Part 1: Building a Foundation

What is the top number of a fraction called?

undefined. A) Denominator

undefined. B) Numerator ✓

undefined. C) Quotient

undefined. D) Dividend

The top number of a fraction is called the numerator.

Which of the following are necessary steps in simplifying a fraction?

undefined. A) Identify the Greatest Common Factor (GCF) ✓

undefined. B) Multiply the numerator and denominator by the same number

undefined. C) Divide both the numerator and denominator by their GCF ✓

undefined. D) Add the numerator and denominator

Necessary steps include identifying the GCF and dividing both the numerator and denominator by it.

Explain why it is important to simplify fractions in mathematical calculations.

Simplifying fractions makes calculations easier and helps in understanding the relationship between numbers.

List the components of a fraction and provide a brief description of each.

1. What is a numerator?

The top number of a fraction.

2. What is a denominator?

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The bottom number of a fraction.

A fraction consists of a numerator and a denominator, where the numerator indicates how many parts are taken and the denominator indicates how many equal parts the whole is divided into.

Part 2: Comprehension and Application

If a fraction has a numerator of 0, what is the value of the fraction?

undefined. A) 0 ✓

undefined. B) 1

undefined. C) Undefined

undefined. D) Equal to the denominator

If the numerator is 0, the value of the fraction is 0.

Which of the following fractions are already in their simplest form?

undefined. A) 4/8

undefined. B) 5/7 ✓

undefined. C) 10/20

undefined. D) 3/9

Fractions that are already in simplest form cannot be reduced further.

Describe the process of finding the Greatest Common Factor (GCF) of two numbers.

The GCF can be found by listing the factors of each number and identifying the largest factor they have in common.

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

undefined. A) 3/4 ✓

undefined. B) 2/3

undefined. C) 6/8

undefined. D) 9/12

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

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

undefined. A) 3/6 ✓

undefined. B) 4/8 ✓

undefined. C) 5/10 ✓

undefined. D) 6/12 ✓

Fractions that can be simplified to 1/2 are those that have a numerator and denominator that are both even numbers.

Apply the simplification process to the fraction 45/60 and explain each step you take.

To simplify 45/60, find the GCF, divide both the numerator and denominator by the GCF, and express the result.

Part 3: Analysis, Evaluation, and Creation

Which of the following statements is true about the fraction 9/27?

undefined. A) It is already in simplest form.

undefined. B) It can be simplified to 1/3. ✓

undefined. C) It can be simplified to 3/9.

undefined. D) It cannot be simplified.

The fraction 9/27 can be simplified to 1/3.

Analyze the fractions below and identify which ones are equivalent to 2/5.

undefined. A) 4/10 ✓

undefined. B) 6/15 ✓

undefined. C) 8/20 ✓

undefined. D) 10/25 ✓

Fractions equivalent to 2/5 will have the same ratio when simplified.

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Analyze the relationship between the numerator and denominator in the fraction 16/64 and explain why it can be simplified to 1/4.

The fraction 16/64 can be simplified to 1/4 because both numbers can be divided by their GCF, which is 16.

Which fraction represents a more simplified form of 50/100?

undefined. A) 1/2 ✓

undefined. B) 5/10
undefined. C) 10/20
undefined. D) 25/50

The simplified form of 50/100 is 1/2.

Evaluate the following fractions and select those that are equivalent to 3/4.

undefined. A) 6/8 ✓

undefined. B) 9/12 ✓

undefined. C) 12/16 ✓

undefined. D) 15/20 ✓

Fractions equivalent to 3/4 will have the same ratio when simplified.

Create a real-world scenario where simplifying fractions would be necessary and beneficial. Explain the situation and the role of simplification.

Simplifying fractions is beneficial in real-world scenarios such as cooking, where precise measurements are needed.

Synthesize your understanding of fraction simplification by listing three benefits of using simplified fractions in everyday life and providing a brief explanation for each.

1. Benefit 1
Easier calculations.

2. Benefit 2
Clearer communication of quantities.

3. Benefit 3
Better understanding of ratios.

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Benefits of simplified fractions include easier calculations, clearer communication of quantities, and better understanding of ratios.

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