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Fractions As Division Worksheet Answer Key PDF

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Part 1: Building a Foundation

What does the numerator in a fraction represent?

undefined. A) The total number of parts

undefined. B) The number of parts being considered ✓

undefined. C) The division of the denominator

undefined. D) The sum of the parts

The numerator represents the number of parts being considered.

Which of the following are equivalent fractions to $\frac{1}{2}$?

undefined. A) $\frac{2}{4}$ ✓

undefined. B) $\frac{3}{6}$ ✓

undefined. C) $\frac{4}{8}$ ✓

undefined. D) $\frac{5}{10}$ ✓

Equivalent fractions are those that represent the same value.

Explain in your own words how a fraction represents a division problem.

A fraction represents a division problem by showing how many parts of the whole are being considered.

List the two main components of a fraction and their roles.

1. What is the numerator?

The numerator is the top part of the fraction.

2. What is the denominator?

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The denominator is the bottom part of the fraction.

The two main components are the numerator and the denominator; the numerator indicates the number of parts, while the denominator indicates the total number of equal parts.

What is the result of simplifying the fraction $\frac{8}{12}$?

undefined. A) $\frac{2}{3}$ ✓

undefined. B) $\frac{3}{4}$

undefined. C) $\frac{4}{6}$

undefined. D) $\frac{1}{2}$

The simplified form of $\frac{8}{12}$ is $\frac{2}{3}$.

Part 2: Application and Analysis

You have 15 apples and want to divide them equally among 4 friends. What fraction of the apples does each friend get?

undefined. A) $\frac{15}{4}$ ✓

undefined. B) $\frac{4}{15}$

undefined. C) $\frac{3}{4}$

undefined. D) $\frac{1}{4}$

Each friend gets $\frac{15}{4}$ apples.

Which of the following scenarios can be represented by the fraction $\frac{3}{5}$?

undefined. A) 3 out of 5 slices of pizza eaten ✓

undefined. B) 3 apples shared among 5 people ✓

undefined. C) 3 miles out of a 5-mile journey completed ✓

undefined. D) 3 dollars out of 5 dollars spent ✓

All options represent scenarios that can be expressed as $\frac{3}{5}$.

Create a real-world problem that can be solved using the fraction $\frac{7}{2}$. Explain your reasoning.

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A possible problem could involve sharing 7 items among 2 people, leading to each person receiving $\frac{7}{2}$ items.

If $\frac{a}{b} = \frac{6}{9}$, what is the relationship between a and b when simplified?

undefined. A) $a = 2, b = 3$ ✓

undefined. B) $a = 3, b = 4$

undefined. C) $a = 1, b = 2$

undefined. D) $a = 4, b = 6$

When simplified, a and b can be expressed as $a = 2, b = 3$.

Which of the following statements are true about the fraction $\frac{12}{16}$?

undefined. A) It can be simplified to $\frac{3}{4}$ ✓

undefined. B) It is an improper fraction

undefined. C) It represents a division of 12 by 16 ✓

undefined. D) It is equivalent to $\frac{6}{8}$ ✓

The true statements include that it can be simplified to $\frac{3}{4}$ and represents a division of 12 by 16.

Analyze the fraction $\frac{10}{15}$ and explain the steps to simplify it. What is the significance of simplifying fractions?

To simplify $\frac{10}{15}$, divide both the numerator and denominator by their greatest common factor, which is 5, resulting in $\frac{2}{3}$. Simplifying fractions makes them easier to understand and work with.

Part 3: Evaluation and Creation

Which of the following best evaluates the statement: "Fractions and division are interchangeable in all mathematical contexts"?

undefined. A) Always true

undefined. B) Sometimes true ✓

undefined. C) Never true

undefined. D) True only for whole numbers

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The statement is sometimes true, as fractions can represent division but not in every context.

Evaluate the effectiveness of using fractions to solve the following problems:

undefined. A) Dividing a pizza into equal slices ✓

undefined. B) Calculating the percentage of a test score ✓

undefined. C) Determining the ratio of boys to girls in a class ✓

undefined. D) Converting currency exchange rates

Fractions are effective in problems involving division, ratios, and parts of a whole.

Design a complex word problem involving fractions as division that requires multiple steps to solve. Provide a solution and explain your thought process.

A complex problem could involve dividing a total amount into parts and then further dividing those parts, requiring careful planning and calculation.

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