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Multiplying Dividing Fractions Worksheet Answer Key PDF

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Part 1: Building a Foundation

What is the first step in multiplying two fractions?

undefined. Add the numerators

undefined. Multiply the numerators ✓

undefined. Subtract the denominators

undefined. Divide the numerators

The first step in multiplying two fractions is to multiply the numerators.

Which of the following are steps in dividing fractions? (Select all that apply)

undefined. Find the reciprocal of the divisor ✓

undefined. Multiply the numerators

undefined. Subtract the numerators

undefined. Multiply by the reciprocal ✓

The steps in dividing fractions include finding the reciprocal of the divisor and multiplying by the reciprocal.

Explain what it means to simplify a fraction and why it is important.

Simplifying a fraction means reducing it to its lowest terms, which makes it easier to understand and work with.

List the steps to convert a mixed number into an improper fraction.

1. Step 1: Multiply the whole number by the denominator.
Multiply.

2. Step 2: Add the numerator to the result.

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Add.

3. Step 3: Place the result over the original denominator.

Divide.

To convert a mixed number to an improper fraction, multiply the whole number by the denominator, add the numerator, and place the result over the original denominator.

Part 2: comprehension and Application

When simplifying the fraction 18/24, what is the greatest common divisor (GCD) used?

undefined. 2

undefined. 3

undefined. 6 ✓

undefined. 9

The greatest common divisor of 18 and 24 is 6.

Which of the following fractions are equivalent to 3/4? (Select all that apply)

undefined. 6/8 ✓

undefined. 9/12 ✓

undefined. 12/16 ✓

undefined. 15/20

The fractions equivalent to 3/4 are 6/8, 9/12, and 12/16.

Describe the process of cross-cancellation and how it can simplify the multiplication of fractions.

Cross-cancellation involves reducing fractions before multiplying, which can simplify calculations and lead to smaller numbers.

What is the product of (3/5) * (10/12) after simplification?

undefined. 1/2 ✓

undefined. 5/8

undefined. 1/4

undefined. 1/3

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The product of (3/5) * (10/12) after simplification is 1/2.

A recipe requires 2/3 cup of sugar. If you want to make half of the recipe, how much sugar will you need? Show your calculations.

To find half of 2/3 cup of sugar, multiply 2/3 by 1/2, which equals 1/3 cup.

Part 3: Analysis, Evaluation, and Creation

Which of the following statements correctly describes the relationship between a fraction and its reciprocal?

undefined. A fraction and its reciprocal have the same value.

undefined. A fraction and its reciprocal multiply to 1. ✓

undefined. A fraction and its reciprocal add to 1.

undefined. A fraction and its reciprocal are always improper fractions.

A fraction and its reciprocal multiply to 1.

Analyze the fractions 5/6 and 10/12. Which statements are true? (Select all that apply)

undefined. They are equivalent fractions. ✓

undefined. 5/6 is in simplest form. ✓

undefined. 10/12 can be simplified to 5/6. ✓

undefined. Both fractions have the same denominator.

The statements that are true include that they are equivalent fractions, 5/6 is in simplest form, and 10/12 can be simplified to 5/6.

Given the fractions 3/4 and 9/12, analyze their relationship and explain whether they are equivalent or not. Provide your reasoning.

The fractions 3/4 and 9/12 are equivalent because when you simplify 9/12, you get 3/4.

If you multiply a fraction by its reciprocal, what is the result?

undefined. 0

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undefined. 1 ✓

undefined. The original fraction

undefined. The reciprocal

The result of multiplying a fraction by its reciprocal is 1.

Evaluate the following statements about multiplying fractions. Which are true? (Select all that apply)

undefined. The product of two fractions is always less than either fraction.

undefined. The product of two fractions can be greater than one of the fractions. ✓

undefined. Multiplying by a fraction less than 1 reduces the value. ✓

undefined. Multiplying by a fraction greater than 1 increases the value. ✓

The true statements include that the product of two fractions can be greater than one of the fractions and that multiplying by a fraction less than 1 reduces the value.

Create a real-world problem involving the division of fractions and provide a step-by-step solution to your problem.

An example could be dividing a recipe or a quantity of material into smaller portions, showing the calculations involved.

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