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# Double Digit Fraction Multiplication Worksheet 5th 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 is to multiply the numerators.

**Which of the following are characteristics of a proper fraction? (Select all that apply)**

undefined. Numerator is larger than the denominator

**undefined. Numerator is smaller than the denominator** ✓

**undefined. The fraction is less than 1** ✓

undefined. The fraction is greater than 1

A proper fraction has a numerator smaller than the denominator.

**Explain why it is important to simplify a fraction after multiplying.**

**Simplifying fractions makes them easier to understand and use in calculations.**

**List two methods for simplifying a fraction.**

1. Method 1

**Dividing by the greatest common divisor.**

2. Method 2

**Reducible by common factors.**

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Common methods include dividing by the greatest common divisor and reducing by common factors.

**Which of the following fractions is an improper fraction?**

undefined. 3/4

**undefined. 7/5 ✓**

undefined. 1/2

undefined. 5/6

An improper fraction has a numerator larger than or equal to the denominator.

## Part 2: comprehension and Application

**When multiplying the fractions 12/15 and 10/20, which steps are necessary? (Select all that apply)**

**undefined. Multiply the numerators ✓**

**undefined. Multiply the denominators ✓**

**undefined. Simplify the resulting fraction ✓**

undefined. Convert to mixed numbers before multiplying

You need to multiply the numerators and denominators, and then simplify the result.

**Describe the difference between a mixed number and an improper fraction.**

**A mixed number combines a whole number and a proper fraction, while an improper fraction has a numerator larger than its denominator.**

**If you multiply 14/25 by 10/30, what is the simplified result?**

**undefined. 7/15 ✓**

undefined. 14/75

undefined. 7/75

undefined. 14/50

The simplified result of the multiplication is 7/15.

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**Which of the following scenarios involve multiplying fractions? (Select all that apply)**

**undefined. Calculating the area of a rectangle with fractional side lengths** ✓

undefined. Adding two fractions together

undefined. Dividing a recipe into smaller portions

**undefined. Determining the total cost of items with fractional prices** ✓

Calculating area and determining total costs with fractional prices involve multiplying fractions.

**A recipe calls for 3/4 cup of sugar, but you want to make half the recipe. How much sugar should you use? Show your work.**

**You should use 3/8 cup of sugar, which is half of 3/4.**

## Part 3: Analysis, Evaluation, and Creation

**Which of the following statements is true about multiplying fractions?**

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

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

**undefined.** **The product of two fractions is sometimes larger and sometimes smaller than the original fractions.** ✓

undefined. The product of two fractions is always equal to one of the fractions.

The product of two fractions is sometimes larger and sometimes smaller than the original fractions.

**Analyze the multiplication of 16/24 and 9/12. Which of the following are true? (Select all that apply)**

undefined. The product is an improper fraction.

**undefined. The product can be simplified.** ✓

**undefined. The product is a proper fraction.** ✓

undefined. The product is a mixed number.

The product can be simplified and is a proper fraction.

**Break down the process of multiplying 18/27 by 6/9 and explain each step in detail.**

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**Multiply the numerators and denominators, then simplify the result.**

**Which strategy is most effective for simplifying the fraction 36/48 after multiplication?**

undefined. Dividing by 2
undefined. Dividing by 3
undefined. Dividing by 6
**undefined. Dividing by 12 ✓**

Dividing by 12 is the most effective strategy for simplifying 36/48.

**Evaluate the effectiveness of different methods for simplifying fractions. Which methods are generally most efficient? (Select all that apply)**

**undefined. Dividing by the smallest prime number ✓**
**undefined. Using the greatest common divisor ✓**
undefined. Dividing by the numerator
undefined. Dividing by the denominator

Using the greatest common divisor and dividing by the smallest prime number are efficient methods.

**Create a real-world problem that involves multiplying fractions, and provide a solution to your problem.**

**An example could be calculating the amount of paint needed for a wall area.**

**Propose two different strategies for teaching fraction multiplication to a peer who is struggling with the concept.**

1. Strategy 1
**Use visual aids like fraction bars.**

2. Strategy 2
**Incorporate real-life examples, like cooking.**

Using visual aids and real-life examples can help in teaching fraction multiplication.

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