Addition And Subtraction Of Fractions Worksheets Answer Key PDF

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Part 1: Building a Foundation

What is the numerator in the fraction 3/4?

undefined. 3 ✓

undefined. 4

undefined. 7

undefined. 1

The numerator is the number above the fraction line.

Which of the following are proper fractions?

undefined. 5/6 ✓

undefined. 7/3

undefined. 2/5 ✓

undefined. 9/9

Proper fractions have numerators less than denominators.

Define what a mixed number is and provide an example.

A mixed number consists of a whole part and a fractional part, such as 1 1/2.

Part 2: Comprehension and Application

What is the least common denominator of 1/4 and 1/6?

undefined. 12 ✓

undefined. 24
undefined. 6
undefined. 8

The least common denominator is the smallest multiple common to both denominators.

When adding fractions with unlike denominators, which steps are necessary?

undefined. Find a common denominator ✓
undefined. Add the numerators directly
undefined. Simplify the result ✓
undefined. Convert to improper fractions ✓

Finding a common denominator is essential for adding fractions with different denominators.

Explain why it is necessary to find a common denominator when adding or subtractting fractions.

A common denominator allows fractions to be combined accurately as they represent parts of the same whole.

What is the result of adding 2/3 and 1/6?

undefined. 3/9
undefined. 5/6 ✓
undefined. 7/6
undefined. 1/2

The result is found by converting to a common denominator and then adding the numerators.

Solve the following problem: Add 1 1/4 and 2 2/3. Show your work and provide the answer as a mixed number.

Convert to improper fractions, find a common denominator, add, and convert back to a mixed number.

Part 3: Analysis, Evaluation, and Creation

If you have the fractions 3/5 and 4/10, which statement is true?

undefined. 3/5 is greater than 4/10 ✓
undefined. 3/5 is less than 4/10
undefined. 3/5 is equal to 4/10
undefined. Can not be determined

You can determine the relationship by comparing the fractions directly or converting them.

Analyze the following problem: Why might someone choose to convert mixed numbers to improper fractions before adding them?

undefined. It simplifies the calculation ✓
undefined. It makes it easier to find a common denominator ✓
undefined. It is required by mathematical rules
undefined. It allows for direct addition of numerators

Converting to improper fractions simplifies the addition process.

Break down the process of subtractting 7/12 from 5/6. Explain each step and why it is necessary.

To subtract, find a common denominator, convert fractions, and then subtract the numerators.

Which of the following scenarios correctly apply the concept of fraction addition in real life?

undefined. Combining 1/2 cup of sugar with 1/4 cup of sugar in a recipe ✓
undefined. Adding 3/4 of a mile to 1/2 of a mile for a total distance ✓
undefined. Subtractting 1/3 of a pizza from 1/2 of a pizza
undefined. Doubling a recipe that requires 2/3 cup of flour

Real-life scenarios often involve combining parts, which can be represented as fractions.

Create a real-world problem involving the addition of fractions. Provide a detailed solution to your problem.

A real-world problem should involve combining fractions, and the solution should show the steps taken.