Comparing Fractions Worksheet 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 is 3 in this case.

Which of the following are components of a fraction?

undefined. Numerator ✓

undefined. Denominator ✓

undefined. Quotient

undefined. Dividend

The components of a fraction include the numerator and denominator.

Explain why it is important to have a common denominator when comparing fractions.

Having a common denominator allows for direct comparison of fractions, making it easier to determine which is larger or smaller.

List two methods for comparing fractions.

1. Method 1

Cross-multiplication

2. Method 2

Finding a common denominator

Two methods for comparing fractions include cross-multiplication and finding a common denominator.

Part 2: Comprehension and Interpretation

Which method involves multiplying the numerator of one fraction by the denominator of the other to compare fractions?

undefined. Cross-multiplication ✓
undefined. Simplification
undefined. Decimal conversion
undefined. Fraction addition

The method is called cross-multiplication.

Which of the following fractions are equivalent to 1/2?

undefined. 2/4 ✓
undefined. 3/6 ✓
undefined. 4/8 ✓
undefined. 5/10 ✓

Fractions equivalent to 1/2 include 2/4, 3/6, 4/8, and 5/10.

Describe how you would use a number line to compare the fractions 1/3 and 1/4.

On a number line, 1/3 is to the right of 1/4, indicating that 1/3 is greater than 1/4.

Part 3: Application and Analysis

If you have 3/5 of a pizza and your friend has 2/5 of a pizza, who has more pizza?

undefined. You ✓
undefined. Your friend
undefined. Both have the same amount

undefined. Cannot be determined

You have more pizza since 3/5 is greater than 2/5.

Which of the following are steps to simplify the fraction 8/12?

undefined. Find the GCD of 8 and 12 ✓
undefined. Divide both numerator and denominator by 4 ✓
undefined. Multiply both numerator and denominator by 2
undefined. Result in 2/3 ✓

Steps include finding the GCD and dividing both numerator and denominator by that number.

Convert the fractions 3/4 and 5/8 to decimals and determine which is larger.

3/4 converts to 0.75 and 5/8 converts to 0.625, so 3/4 is larger.

Which fraction is larger: 7/10 or 3/5?

undefined. 7/10 ✓
undefined. 3/5
undefined. Both are equal
undefined. Cannot be determined

7/10 is larger than 3/5.

Part 4: Evaluation and Creation

Which fraction is closest to 1/2?

undefined. 3/5
undefined. 2/5
undefined. 5/8 ✓
undefined. 1/3

5/8 is closest to 1/2.

Evaluate the following fractions and select those that are greater than 1/2:

undefined. 3/7

undefined. 4/9

undefined. 5/8 ✓

undefined. 7/10 ✓

Fractions greater than 1/2 include 5/8 and 7/10.

Create a real-world scenario where comparing fractions is necessary and explain how you would solve it.

An example could be comparing slices of pizza among friends to determine who has more.

Propose two different methods to compare the fractions 7/8 and 9/10 and explain which method you find more effective and why.

1. Method 1

Cross-multiplication

2. Method 2

Finding a common denominator

Methods could include cross-multiplication and finding a common denominator, with effectiveness depending on the context.