

Subtracting Fractions With Unlike Denominators Worksheets Answer Key PDF

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Part 1: Building a Foundation

What is the denominator in the fraction $\frac{3}{4}$?

undefined. A) 3

undefined. B) 4 ✓

undefined. C) 7

undefined. D) 1

The denominator in the fraction $\frac{3}{4}$ is 4.

Which of the following are considered unlike denominators?

undefined. A) $\frac{1}{2}$ and $\frac{3}{4}$ ✓

undefined. B) $\frac{5}{6}$ and $\frac{5}{6}$

undefined. C) $\frac{2}{3}$ and $\frac{4}{6}$

undefined. D) $\frac{7}{8}$ and $\frac{9}{8}$

Unlike denominators are those that are different from each other.

Explain why it is necessary to find a common denominator when subtracting fractions with unlike denominators.

Finding a common denominator allows fractions to be expressed with the same bottom number, making subtraction possible.

List the steps involved in subtracting fractions with unlike denominators.

1. What is the first step?

Find the least common denominator.

2. What do you do next?

Convert the fractions to equivalent fractions.

3. What is the final step?

Subtract the numerators and simplify if necessary.

The steps include finding a common denominator, converting the fractions, and then subtracting the numerators.

What is the least common denominator of $\frac{1}{3}$ and $\frac{1}{4}$?

undefined. A) 3

undefined. B) 4

undefined. C) 12 ✓

undefined. D) 7

The least common denominator of $\frac{1}{3}$ and $\frac{1}{4}$ is 12.

Part 2: Understanding and Interpretation

Which of the following fractions is equivalent to $\frac{2}{3}$ when converted to a denominator of 9?

undefined. A) $\frac{4}{9}$

undefined. B) $\frac{6}{9}$ ✓

undefined. C) $\frac{3}{9}$

undefined. D) $\frac{8}{9}$

The fraction equivalent to $\frac{2}{3}$ with a denominator of 9 is $\frac{6}{9}$.

Select all correct statements about equivalent fractions:

undefined. A) They have the same value. ✓

undefined. B) They have different numerators and denominators. ✓

undefined. C) They can be used to find a common denominator. ✓

undefined. D) They must have the same numerator.

Equivalent fractions have the same value but may have different numerators and denominators.

Describe how you would convert the fractions $\frac{1}{2}$ and $\frac{1}{3}$ to have a common denominator.

To convert $\frac{1}{2}$ and $\frac{1}{3}$ to a common denominator, you would find the least common multiple of 2 and 3, which is 6, and then adjust the fractions accordingly.

Part 3: Application and Analysis

What is the result of subtracting $\frac{1}{4}$ from $\frac{3}{8}$ after finding a common denominator?

undefined. A) $\frac{1}{8}$ ✓

undefined. B) $\frac{1}{16}$

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

undefined. D) $\frac{1}{32}$

The result of subtracting $\frac{1}{4}$ from $\frac{3}{8}$ after finding a common denominator is $\frac{1}{8}$.

Given the fractions $\frac{5}{12}$ and $\frac{1}{3}$, which of the following are steps to subtract them?

undefined. A) Find the least common denominator. ✓

undefined. B) Convert $\frac{1}{3}$ to $\frac{4}{12}$. ✓

undefined. C) Subtract $\frac{1}{12}$ from $\frac{5}{12}$.

undefined. D) Simplify the result. ✓

The steps to subtract $\frac{5}{12}$ and $\frac{1}{3}$ include finding the least common denominator, converting the fractions, and then subtracting.

Convert the fractions $\frac{2}{5}$ and $\frac{3}{10}$ to have a common denominator and subtract them. Show your work.

To convert $\frac{2}{5}$ and $\frac{3}{10}$ to a common denominator, you would find the least common multiple, which is 10, and then perform the subtraction.

If the least common denominator of two fractions is 24, which of the following pairs could the fractions be?

undefined. A) $\frac{1}{2}$ and $\frac{1}{3}$ ✓

undefined. B) $\frac{5}{8}$ and $\frac{3}{4}$

undefined. C) $\frac{1}{6}$ and $\frac{1}{8}$

undefined. D) $\frac{1}{4}$ and $\frac{1}{6}$

The pairs of fractions that could have a least common denominator of 24 include $\frac{1}{2}$ and $\frac{1}{3}$.

Part 4: Evaluation and Creation

Which of the following methods can be used to find the least common denominator?

undefined. **A) Prime factorization ✓**

undefined. B) Adding the denominators

undefined. **C) Listing multiples ✓**

undefined. D) Subtractin the denominators

Methods to find the least common denominator include prime factorization and listing multiples.

Analyze the process of subtractin $\frac{7}{9}$ from $\frac{5}{6}$ by finding a common denominator and simplifying the result. Explain each step.

The process involves finding a common denominator, converting the fractions, subtractin the numerators, and simplifying the result.

Which of the following best evaluates the accuracy of subtractin $\frac{3}{7}$ from $\frac{2}{5}$ using a common denominator of 35?

undefined. A) Correct, the result is $\frac{1}{35}$

undefined. **B) Incorrect, the result is $\frac{1}{35}$ ✓**

undefined. C) Correct, the result is $\frac{1}{35}$ after simplification

undefined. D) Incorrect, the result is $\frac{1}{35}$ after simplification

The evaluation of subtractin $\frac{3}{7}$ from $\frac{2}{5}$ using a common denominator of 35 is incorrect, the result is not $\frac{1}{35}$.

Evaluate the following statements about subtractin fractions with unlike denominators:

undefined. **A) It is necessary to simplify the final result. ✓**

undefined. B) The least common denominator is always the product of the denominators.

undefined. C) Equivalent fractions must be used to perform the subtraction.

undefined. **D) The process is similar to adding fractions with unlike denominators. ✓**

The statements about subtractin fractions with unlike denominators include the necessity to simplify the final result and that the process is similar to adding fractions.

Create a real-world problem involving the subtraction of fractions with unlike denominators. Solve the problem and explain your reasoning.

A real-world problem could involve measuring ingredients in a recipe, and the solution should show the steps taken to subtract the fractions.