

Fraction Simplification Worksheet

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Part 1: Building a Foundation

What is the numerator in the fraction 3/4?

Hint: Identify the top number in the fraction.

A) 3
B) 4
C) 7
D) 1

Which of the following are proper fractions?

Hint: A proper fraction has a numerator smaller than its denominator.

A) 5/8
B) 9/9
C) 7/3
D) 2/5

Explain what it means for two fractions to be equivalent.

Hint: Think about how fractions can represent the same value.

List the steps to simplify a fraction.

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Hint: Consider the process of finding the GCD.

1. Step 1

2. Step 2

3. Step 3

Part 2: comprehension

Which fraction is in its simplest form?

Hint: Look for a fraction that cannot be reduced further.

O A) 6/9

OB) 4/10

O C) 5/7

OD) 8/12

Which of the following fractions can be simplified by dividing both the numerator and the denominator by 2?

Hint: Look for fractions with even numbers.

A) 10/16

B) 9/12

C) 7/14

D) 15/20

Describe how you would determine if a fraction is in its simplest form.

Hint: Consider the factors of the numerator and denominator.

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Part 3: Application

Simplify the fraction 18/24. What is the result?

Hint: Find the GCD and divide both numbers.

O A) 3/4

OB) 2/3

O C) 6/8

OD) 9/12

Which of the following are equivalent to 1/2?

Hint: Look for fractions that represent the same value.

A) 2/4
B) 3/6
C) 4/8

D) 5/10

Convert the improper fraction 11/4 into a mixed number.

Hint: Divide the numerator by the denominator.

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Part 4: Analyzing Relationships

Which fraction is greater: 3/5 or 2/3?

Hint: Compare the two fractions by finding a common denominator.

○ A) 3/5

O B) 2/3

○ C) They are equal

O D) Cannot be determined

Analyze the following fractions and select those that are not in simplest form.

Hint: Look for fractions that can be reduced.

A) 12/16
B) 5/7
C) 14/21
D) 9/15

Explain how you would determine the greatest common divisor (GCD) of two numbers.

Hint: Consider the factors of both numbers.

Part 5: Evaluation and Creation

Which of the following statements is true about the fraction 8/12?

Hint: Consider whether the fraction can be simplified.

 \bigcirc A) It is already in simplest form.

- \bigcirc B) It can be simplified to 2/3.
- \bigcirc C) It can be simplified to 4/6.

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○ D) It cannot be simplified.

Evaluate the following statements and select those that correctly describe equivalent fractions.

Hint: Look for fractions that represent the same value.

 \square A) 1/3 and 2/6 are equivalent.

 \square B) 3/4 and 6/8 are equivalent.

 \Box C) 5/10 and 1/2 are equivalent.

D) 7/9 and 14/18 are equivalent.

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

Hint: Think about situations involving measurements or sharing.