

Reducing Fractions Worksheet

Reducing Fractions Worksheet

Disclaimer: The reducing fractions worksheet was generated with the help of StudyBlaze Al. Please be aware that Al can make mistakes. Please consult your teacher if you're unsure about your solution or think there might have been a mistake. Or reach out directly to the StudyBlaze team at max@studyblaze.io.

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 components of a fraction?	
Hint: Think about the parts that make up a fraction.	
A) Numerator	
☐ B) Denominator	
C) Quotient	
D) Dividend	
Explain what it means for a fraction to be in its simplest form.	
Hint: Consider the definition of simplification in fractions.	

List two methods for finding the greatest common divisor (GCD) of two numbers.



Hint: Think about different mathematical techniques.
1. Method 1
2. Method 2
Why is it important to simplify fractions?
Hint: Consider the benefits of working with simpler numbers.
○ A) To make them look nicer
○ B) To make calculations easier
C) To change their value
O) To increase their size
Part 2: Comprehension and Application
Which of the following fractions are in their simplest form?
Hint: Evaluate each fraction for common factors.
□ A) 4/8
□ B) 5/7
☐ C) 10/20
□ D) 3/9
Describe the process of using prime factorization to find the GCD of two numbers.
Hint: Think about breaking down numbers into their prime factors.



What is the simplified form of the fraction 18/24?
Hint: Find the GCD and divide both parts of the fraction.
○ A) 3/4
○ B) 2/3
○ C) 6/8
O) 9/12
Which of the following fractions can be simplified to 1/2?
Hint: Look for fractions that have a numerator and denominator that are both even.
☐ A) 2/4
□ B) 3/6
☐ C) 4/8
□ D) 5/10
Apply the Euclidean algorithm to find the GCD of 56 and 98, and use it to simplify the fraction 56/98.
Hint: Consider the steps of the Euclidean algorithm.
Part 3: Analysis, Evaluation, and Creation
Which of the following steps is NOT necessary when simplifying a fraction?
Hint: Think about the process of simplification.
○ A) Find the GCD
B) Divide both numerator and denominator by the GCD
C) Multiply the numerator by 2
D) Check if the fraction is in simplest form

Create hundreds of practice and test experiences based on the latest learning science.



Hint: Look for fractions that can be simplified to 2/3.
☐ A) 4/6
□ B) 6/9
□ C) 8/12
□ D) 10/15
Analyze the fraction 45/60 and explain the steps to simplify it, including finding the GCD.
Hint: Consider the factors of both numbers.
If a fraction is simplified incorrectly, what is the most likely mistake?
Hint: Think about common errors in simplification.
A) Using the wrong numerator
○ B) Not finding the correct GCD
C) Adding the numerator and denominator
O) Multiplying the numerator by the denominator
Evaluate the following statements and select those that are true about simplifying fractions.
Hint: Consider the effects of simplification on fractions.
A) Simplifying a fraction changes its value.
☐ B) A fraction can have multiple simplest forms.
C) Simplifying a fraction makes it easier to compare with others.
D) The simplest form of a fraction is unique.
Create a real-world scenario where simplifying fractions would be necessary, and explain how you would simplify a given fraction in that context.

Create hundreds of practice and test experiences based on the latest learning science.

Hint: Think about situations involving measurements or ratios.



Create hundreds of practice and test experiences based on the latest learning science.