

## **Dividing Fractions Worksheet Questions and Answers PDF**

Dividing Fractions Worksheet Questions And Answers PDF

Disclaimer: The dividing fractions worksheet questions and answers pdf 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 first step in dividing fractions?
Hint: Think about the operations involved in division.
<ul> <li>A) Add the fractions</li> <li>C) Keep the first fraction as it is ✓</li> <li>D) Subtract the fractions</li> <li>C) Multiply the fractions</li> </ul>
The first step is to keep the first fraction as it is and find the reciprocal of the second fraction.
What is the first step in dividing fractions?
Hint: Think about the operations involved in fraction division.
<ul> <li>Add the fractions</li> <li>Multiply the fractions</li> <li>Keep the first fraction as it is ✓</li> <li>Subtract the fractions</li> </ul>
The first step in dividing fractions is to keep the first fraction as it is.
What is the first step in dividing fractions?
Hint: Think about the operations involved in division.
<ul> <li>A) Add the fractions</li> <li>B) Multiply the fractions</li> <li>C) Keep the first fraction as it is ✓</li> <li>D) Subtract the fractions</li> </ul>



The first step is to keep the first fraction as it is and find the reciprocal of the second fraction.
Which of the following are true about reciprocals?
Hint: Consider the properties of fractions and their reciprocals.
<ul> <li>A) The reciprocal of a fraction is obtained by swapping its numerator and denominator. ✓</li> <li>C) Reciprocals are only used in addition.</li> <li>D) Reciprocals are used in division of fractions. ✓</li> <li>C) The product of a fraction and its reciprocal is always 1. ✓</li> </ul>
Reciprocals are important in division, and their properties include swapping the numerator and denominator.
Which of the following are true about reciprocals?
Hint: Consider the properties of fractions and their inverses.
<ul> <li>☐ The reciprocal of a fraction is obtained by swapping its numerator and denominator. ✓</li> <li>☐ The product of a fraction and its reciprocal is always 1. ✓</li> <li>☐ Reciprocals are only used in addition.</li> <li>☐ Reciprocals are used in division of fractions. ✓</li> </ul>
Reciprocals are obtained by swapping the numerator and denominator, and their product is always 1
Which of the following are true about reciprocals?
Hint: Consider the properties of fractions and their reciprocals.
<ul> <li>A) The reciprocal of a fraction is obtained by swapping its numerator and denominator. ✓</li> <li>B) The product of a fraction and its reciprocal is always 1. ✓</li> <li>C) Reciprocals are only used in addition.</li> <li>D) Reciprocals are used in division of fractions. ✓</li> </ul>
Reciprocals are important in division, and their properties include swapping the numerator and denominator.
Explain why it is necessary to find the reciprocal of the second fraction when dividing fractions.

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

Hint: Think about the role of reciprocals in division.



	h
Finding the reciprocal allows us to convert the division problem into a multiplicati which is easier to solve.	on problem,
Explain why it is necessary to find the reciprocal of the second fraction when dividing thint: Think about how division is related to multiplication.	g fractions.
Finding the reciprocal allows us to convert the division of fractions into multiplica easier to compute.	tion, which is
Explain why it is necessary to find the reciprocal of the second fraction when dividing Hint: Think about the role of reciprocals in division.	g fractions.
Finding the reciprocal allows us to convert the division problem into a multiplicati which is easier to solve.	on problem,
Part 2: Comprehension and Application	



What is the reciprocal of the fraction 3/4?			
Hint: Remember how to find the reciprocal.			
○ 4/3 <b>✓</b>			
$\bigcirc$ 3/4			
○ 1/3 ○			
○ 1/4			
The reciprocal of 3/4 is 4/3.			
What is the reciprocal of the fraction 3/4?			
Hint: Think about how to swap the numerator and denominator.			
○ A) 4/3 ✓			
○ C) 1/3			
○ D) 1/4			
○ C) 3/4			
The reciprocal of 3/4 is 4/3.			
What is the reciprocal of the fraction 3/4?			
Hint: Think about how to swap the numerator and denominator.			
○ A) 4/3 ✓			
○ B) 3/4			
○ C) 1/3			
○ D) 1/4			
The reciprocal of 3/4 is 4/3.			
Which of the following statements are correct about simplifying fractions?			
Hint: Consider the process of reducing fractions to their simplest form.			
<ul> <li>□ A) A fraction is simplified when the numerator and denominator are as small as possible. ✓</li> <li>□ B) Simplifying involves multiplying the numerator and denominator by the same number.</li> </ul>			
☐ C) Simplifying involves dividing the numerator and denominator by their greatest common factor.			
D) Simplification is not necessary for improper fractions.			

factor. Which of the following statements are correct about simplifying fractions? Hint: Consider the methods used to simplify fractions. ☐ A fraction is simplified when the numerator and denominator are as small as possible. 
✓ Simplifying involves multiplying the numerator and denominator by the same number. Simplifying involves dividing the numerator and denominator by their greatest common factor. ✓ Simplification is not necessary for improper fractions. A fraction is simplified when the numerator and denominator are as small as possible, typically by dividing by their GCF. Which of the following statements are correct about simplifying fractions? Hint: Consider the process of reducing fractions to their simplest form. ☐ A) A fraction is simplified when the numerator and denominator are as small as possible. 
✓ C) Simplifying involves dividing the numerator and denominator by their greatest common factor. D) Simplification is not necessary for improper fractions. C) Simplifying involves multiplying the numerator and denominator by the same number. Simplifying fractions involves reducing them to their lowest terms, often using the greatest common factor. A car travels 3/4 of a mile in 1/2 an hour. How many miles per hour is the car traveling? Show your work. Hint: Think about how to convert the distance and time into a rate.

Simplifying fractions involves reducing them to their lowest terms, often using the greatest common

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

To find the speed, divide the distance by the time, which involves dividing fractions.



A car travels 3/4 of a mile in 1/2 an hour. How many miles per hour is the car traveling? Show your work.
Hint: Think about the formula for speed.
To find the speed, divide the distance by the time: $(3/4) \div (1/2) = (3/4) \times (2/1) = 3/2$ miles per hour.
A car travels 3/4 of a mile in 1/2 an hour. How many miles per hour is the car traveling? Show your work.
Hint: Think about how to convert distance and time into a rate.
To find the speed, divide the distance by the time, which involves dividing fractions.
If you have 1/2 of a pizza and you want to divide it equally among 3 friends, what fraction of the pizza does each friend get?
Hint: Consider how to divide a fraction by a whole number.
○ A) 1/6 ✓
O C) 1/4
○ D) 1/5 ○ C) 1/3
Each friend would get 1/6 of the pizza after dividing 1/2 by 3.



## If you have 1/2 of a pizza and you want to divide it equally among 3 friends, what fraction of the pizza does each friend get?

Hint: Consider how to divide a fraction by a whole number.
○ 1/6 ✓
○ 1/3 ○ 4/4
<ul><li>○ 1/4</li><li>○ 1/5</li></ul>
Each friend would get 1/6 of the pizza.
If you have 1/2 of a pizza and you want to divide it equally among 3 friends, what fraction of the pizza does each friend get?
Hint: Think about how to divide a fraction by a whole number.
<ul> <li>A) 1/6 ✓</li> <li>B) 1/3</li> <li>C) 1/4</li> <li>D) 1/5</li> </ul>
Each friend would get 1/6 of the pizza after dividing 1/2 by 3.
Part 3: Analysis, Evaluation, and Creation
Which of the following expressions correctly represents dividing 5/6 by 2/3?
Hint: Think about how to express division in terms of multiplication.
<ul> <li>(5/6) × (3/2) ✓</li> <li>(5/6) × (2/3)</li> <li>(6/5) × (3/2)</li> <li>(6/5) × (2/3)</li> </ul>
The correct expression is $(5/6) \times (3/2)$ .

## Which of the following expressions correctly represents dividing 5/6 by 2/3?

Hint: Think about how to express division in terms of multiplication.



() C)	(5/6) × (3/2) ✓ (6/5) × (3/2) (6/5) × (2/3) (5/6) × (2/3)
Th	ne correct expression is $(5/6) \times (3/2)$ .
Whic	h of the following expressions correctly represents dividing 5/6 by 2/3?
Hint:	Consider how to express division of fractions in multiplication form.
() B)	$(5/6) \times (3/2) \checkmark$ $(5/6) \times (2/3)$ $(6/5) \times (3/2)$ $(6/5) \times (2/3)$
Th	the correct expression is $(5/6) \times (3/2)$ .
ldent	ify the correct steps in simplifying the result of dividing 4/9 by 2/3.
Hint:	Think about the process of simplification after division.
☐ M	nd the reciprocal of 2/3. ✓  ultiply 4/9 by 3/2. ✓  mplify the resulting fraction by dividing by the GCF. ✓  Id the numerators and denominators.
Th	e steps include finding the reciprocal, multiplying, and simplifying the resulting fraction.
Ident	ify the correct steps in simplifying the result of dividing 4/9 by 2/3.
Hint:	Think about the order of operations in fraction division.
□ C) □ D) □ C)	Find the reciprocal of 2/3. ✓ Simplify the resulting fraction by dividing by the GCF. ✓ Add the numerators and denominators.  Multiply 4/9 by 3/2. ✓
Th	e steps include finding the reciprocal of 2/3 and multiplying by 4/9.

Identify the correct steps in simplifying the result of dividing 4/9 by 2/3.



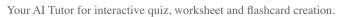
Hint: Think about the order of operations and simplification.
<ul> <li>A) Find the reciprocal of 2/3. ✓</li> <li>B) Multiply 4/9 by 3/2. ✓</li> <li>C) Simplify the resulting fraction by dividing by the GCF. ✓</li> </ul>
D) Add the numerators and denominators.
The steps include finding the reciprocal, multiplying, and simplifying the result.
Analyze the following division of fractions: $(7/8) \div (1/4)$ . Explain each step and simplify the result.
Hint: Break down the division into multiplication and simplification.
To analyze, find the reciprocal of 1/4, multiply (7/8) by (4/1), and simplify to get 7/2.
Analyze the following division of fractions: $(7/8) \div (1/4)$ . Explain each step and simplify the result.
Hint: Break down the division process into clear steps.
Explain the steps of finding the reciprocal, multiplying, and simplifying the result.
Analyze the following division of fractions: (7/8) $\div$ (1/4). Explain each step and simplify the result.



I	To analyze, find the reciprocal of 1/4, multiply, and simplify the result.
WI	hich of the following scenarios correctly illustrates dividing fractions?
Hir	nt: Think about real-life applications of dividing fractions.
0000	Splitting a 3/4 cup of flour into 1/2 cup portions. ✓ Combining 1/3 cup of sugar with 1/4 cup of sugar.  Multiplying 2/5 of a recipe by 3.  Subtract 1/6 of a pizza from 1/2 of a pizza.
I	Splitting a 3/4 cup of flour into 1/2 cup portions illustrates dividing fractions.
WI	hich of the following scenarios correctly illustrates dividing fractions?
Hir	nt: Consider real-world applications of dividing fractions.
0	C) Multiplying 2/5 of a recipe by 3.
I	The correct scenario is splitting a 3/4 cup of flour into 1/2 cup portions.
WI	hich of the following scenarios correctly illustrates dividing fractions?
Hir	nt: Think about real-life applications of dividing fractions.
0	<ul> <li>A) Splitting a 3/4 cup of flour into 1/2 cup portions. ✓</li> <li>B) Combining 1/3 cup of sugar with 1/4 cup of sugar.</li> <li>C) Multiplying 2/5 of a recipe by 3.</li> <li>D) Subtract 1/6 of a pizza from 1/2 of a pizza.</li> </ul>

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

The correct scenario is splitting a 3/4 cup of flour into 1/2 cup portions.





besign a word problem involving the division of fractions in a cooking scenario. Provide a cooking scenario.	uetaneu
Hint: Think about how fractions are used in recipes.	
Create a problem that involves dividing ingredients, such as halving a recipe, and explai solution.	n the
Design a word problem involving the division of fractions in a cooking scenario. Provide a solution and explanation.	detailed
Hint: Think about how fractions are used in recipes.	
Create a problem that involves dividing ingredients and explain the solution.	
Design a word problem involving the division of fractions in a cooking scenario. Provide a solution and explanation.	detailed
Hint: Think creatively about a cooking situation that involves fractions.	
Timit. Trimit creatively about a cooking situation that involves fractions.	



Create a scenario where ingredients are divided, and explain the solution process.