Dividing Fractions Worksheet Answer Key PDF

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Part 1: Building a Foundation

What is the first step in dividing fractions?

undefined. A) Add the fractions
undefined. C) Keep the first fraction as it is ✓
undefined. D) Subtract the fractions
undefined. C) Multiply the fractions

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?

undefined. Add the fractions
undefined. Multiply the fractions
undefined. Keep the first fraction as it is ✓
undefined. Subtract the fractions

The first step in dividing fractions is to keep the first fraction as it is.

What is the first step in dividing fractions?

undefined. A) Add the fractions
undefined. B) Multiply the fractions
undefined. C) Keep the first fraction as it is ✓
undefined. D) Subtract the fractions

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?

undefined. **A) The reciprocal of a fraction is obtained by swapping its numerator and denominator.** ✓

undefined. C) Reciprocals are only used in addition.

undefined. **D) Reciprocals are used in division of fractions.** ✓

undefined. **C) The product of a fraction and its reciprocal is always 1.** ✓

Reciprocals are important in division, and their properties include swapping the numerator and denominator.

Which of the following are true about reciprocals?

undefined. **The reciprocal of a fraction is obtained by swapping its numerator and denominator.** ✓

undefined. **The product of a fraction and its reciprocal is always 1.** ✓

undefined. Reciprocals are only used in addition.

undefined. **Reciprocals are used in division of fractions.** ✓

Reciprocals are obtained by swapping the numerator and denominator, and their product is always 1.

Which of the following are true about reciprocals?

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undefined. **B) The product of a fraction and its reciprocal is always 1.** ✓

undefined. C) Reciprocals are only used in addition.

undefined. **D) Reciprocals are used in division of fractions.** ✓

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.

Finding the reciprocal allows us to convert the division problem into a multiplication problem, which is easier to solve.

Explain why it is necessary to find the reciprocal of the second fraction when dividing fractions.

Finding the reciprocal allows us to convert the division of fractions into multiplication, which is easier to compute.

Explain why it is necessary to find the reciprocal of the second fraction when dividing fractions.

Finding the reciprocal allows us to convert the division problem into a multiplication problem, which is easier to solve.

Part 2: Comprehension and Application

What is the reciprocal of the fraction 3/4?

undefined. 4/3 ✓
undefined. 3/4
undefined. 1/3
undefined. 1/4

The reciprocal of 3/4 is 4/3.

What is the reciprocal of the fraction 3/4?

undefined. A) 4/3 ✓
undefined. C) 1/3
undefined. D) 1/4
undefined. C) 3/4

The reciprocal of 3/4 is 4/3.

What is the reciprocal of the fraction 3/4?

undefined. A) 4/3 ✓
undefined. B) 3/4
undefined. C) 1/3
undefined. D) 1/4

The reciprocal of 3/4 is 4/3.

Which of the following statements are correct about simplifying fractions?

undefined. A) A fraction is simplified when the numerator and denominator are as small as possible. ✓
undefined. B) Simplifying involves multiplying the numerator and denominator by the same number.

undefined. **C) Simplifying involves dividing the numerator and denominator by their greatest common factor.** ✓

undefined. D) Simplification is not necessary for improper fractions.

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

Which of the following statements are correct about simplifying fractions?

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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?

undefined. **A) A fraction is simplified when the numerator and denominator are as small as possible.** ✓

undefined. **C) Simplifying involves dividing the numerator and denominator by their greatest common factor.** ✓

undefined. D) Simplification is not necessary for improper fractions.

undefined. 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.

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.

To find the speed, divide the distance by the time: (3/4) ÷ (1/2) = (3/4) × (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.

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?

undefined. A) 1/6 ✓
undefined. C) 1/4
undefined. D) 1/5
undefined. C) 1/3

Each friend would get 1/6 of the pizza after dividing 1/2 by 3.

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undefined. 1/6 ✓
undefined. 1/3
undefined. 1/4
undefined. 1/5

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undefined. A) 1/6 ✓
undefined. B) 1/3
undefined. C) 1/4
undefined. D) 1/5

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?

undefined. (5/6) × (3/2) ✓
undefined. (5/6) × (2/3)

undefined. (6/5) × (3/2)
undefined. (6/5) × (2/3)

The correct expression is (5/6) × (3/2).

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undefined. C) (6/5) × (3/2)
undefined. D) (6/5) × (2/3)

The correct expression is (5/6) × (3/2).

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

undefined. Find the reciprocal of 2/3. ✓
undefined. Multiply 4/9 by 3/2. ✓
undefined. Simplify the resulting fraction by dividing by the GCF. ✓
undefined. Add the numerators and denominators.

The steps include finding the reciprocal, multiplying, and simplifying the resulting fraction.

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

undefined. A) Find the reciprocal of 2/3. ✓
undefined. C) Simplify the resulting fraction by dividing by the GCF. ✓
undefined. D) Add the numerators and denominators.
undefined. C) Multiply 4/9 by 3/2. ✓

The 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.

undefined. A) Find the reciprocal of 2/3. ✓
undefined. B) Multiply 4/9 by 3/2. ✓
undefined. C) Simplify the resulting fraction by dividing by the GCF. ✓
undefined. 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) ÷ (1/4). Explain each step and simplify the result.

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) ÷ (1/4). Explain each step and simplify the result.

Explain the steps of finding the reciprocal, multiplying, and simplifying the result.

Analyze the following division of fractions: (7/8) ÷ (1/4). Explain each step and simplify the result.

To analyze, find the reciprocal of 1/4, multiply, and simplify the result.

Which of the following scenarios correctly illustrates dividing fractions?

undefined. Splitting a 3/4 cup of flour into 1/2 cup portions. ✓
undefined. Combining 1/3 cup of sugar with 1/4 cup of sugar.
undefined. Multiplying 2/5 of a recipe by 3.
undefined. Subtract 1/6 of a pizza from 1/2 of a pizza.

Splitting a 3/4 cup of flour into 1/2 cup portions illustrates dividing fractions.

Which of the following scenarios correctly illustrates dividing fractions?

undefined. A) Splitting a 3/4 cup of flour into 1/2 cup portions. ✓
undefined. C) Multiplying 2/5 of a recipe by 3.
undefined. D) Subtract 1/6 of a pizza from 1/2 of a pizza.

undefined. C) Combining 1/3 cup of sugar with 1/4 cup of sugar.

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

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undefined. A) Splitting a 3/4 cup of flour into 1/2 cup portions. ✓

undefined. B) Combining 1/3 cup of sugar with 1/4 cup of sugar.

undefined. C) Multiplying 2/5 of a recipe by 3.

undefined. D) Subtract 1/6 of a pizza from 1/2 of a pizza.

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

Design a word problem involving the division of fractions in a cooking scenario. Provide a detailed solution and explanation.

Create a problem that involves dividing ingredients, such as halving a recipe, and explain the solution.

Design a word problem involving the division of fractions in a cooking scenario. Provide a detailed solution and explanation.

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 detailed solution and explanation.

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