Dividing Fractions Worksheet

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Part 1: Building a Foundation

What is the first step in dividing fractions?

Hint: Think about the operations involved in division.

- ◯ A) Add the fractions
- ◯ C) Keep the first fraction as it is
- ◯ D) Subtract the fractions
- ◯ C) Multiply the fractions

What is the first step in dividing fractions?

Hint: Think about the operations involved in fraction division.

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- ◯ Multiply the fractions
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- ◯ B) Multiply the fractions
- ◯ C) Keep the first fraction as it is
- ◯ D) Subtract the fractions

Which of the following are true about reciprocals?

Hint: Consider the properties of fractions and their reciprocals.

- ☐ A) The reciprocal of a fraction is obtained by swapping its numerator and denominator.

- [ ] C) Reciprocals are only used in addition.
- [ ] D) Reciprocals are used in division of fractions.
- [ ] C) The product of a fraction and its reciprocal is always 1.

Which of the following are true about reciprocals?

Hint: Consider the properties of fractions and their inverses.

- [ ] The reciprocal of a fraction is obtained by swapping its numerator and denominator.
- [ ] The product of a fraction and its reciprocal is always 1.
- [ ] Reciprocals are only used in addition.
- [ ] Reciprocals are used in division of fractions.

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Hint: Consider the properties of fractions and their reciprocals.

- [ ] A) The reciprocal of a fraction is obtained by swapping its numerator and denominator.
- [ ] B) The product of a fraction and its reciprocal is always 1.
- [ ] C) Reciprocals are only used in addition.
- [ ] D) Reciprocals are used in division of fractions.

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

Hint: Think about the role of reciprocals in division.

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

Hint: Think about how division is related to multiplication.

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

Hint: Think about the role of reciprocals in division.

Part 2: Comprehension and Application

What is the reciprocal of the fraction 3/4?

Hint: Remember how to find the reciprocal.

- ◯ 4/3
- ◯ 3/4
- ◯ 1/3
- ◯ 1/4

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

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

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.
- ☐ B) Simplifying involves multiplying the numerator and denominator by the same number.
- ☐ C) Simplifying involves dividing the numerator and denominator by their greatest common factor.
- ☐ D) Simplification is not necessary for improper fractions.

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.
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- ☐ D) Simplification is not necessary for improper fractions.
- ☐ C) Simplifying involves multiplying the numerator and denominator by the same number.

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.

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Hint: Think about the formula for speed.

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.

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
- ◯ C) 1/4
- ◯ D) 1/5
- ◯ C) 1/3

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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.

- ◯ (5/6) × (3/2)
- ◯ (5/6) × (2/3)
- ◯ (6/5) × (3/2)
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- ◯ C) (5/6) × (2/3)

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

Hint: Consider how to express division of fractions in multiplication form.

- ◯ A) (5/6) × (3/2)
- ◯ B) (5/6) × (2/3)
- ◯ C) (6/5) × (3/2)
- ◯ D) (6/5) × (2/3)

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

Hint: Think about the process of simplification after division.

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

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

Hint: Think about the order of operations in fraction division.

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

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

Hint: Think about the order of operations and simplification.

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

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

Hint: Break down the division into multiplication and simplification.

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Hint: Break down the division process into clear steps.

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Hint: Break down the process into clear steps.

Which of the following scenarios correctly illustrates dividing fractions?

Hint: Think about real-life applications of dividing fractions.

- ◯ 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.

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- ◯ A) Splitting a 3/4 cup of flour into 1/2 cup portions.
- ◯ C) Multiplying 2/5 of a recipe by 3.
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Design a word problem involving the division of fractions in a cooking scenario. Provide a detailed solution and explanation.

Hint: Think about how fractions are used in recipes.

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Hint: Think creatively about a cooking situation that involves fractions.

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