

Dividing Fractions By Fractions Worksheet

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Part 1: Building a Foundation

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What is the reciprocal of the fraction \(\frac{3}{4}\)?
Hint: Recall the definition of a reciprocal.
○ \(\frac{3}{4}\)
○ \(\frac{1}{4}\)
Which of the following are steps in dividing fractions?
Hint: Think about the process involved in fraction division.
Find the reciprocal of the divisor
☐ Subtract the numerators
☐ Simplify the result
Explain why we use the reciprocal when dividing fractions.
Hint: Consider the relationship between division and multiplication.

List the two main components of a fraction.

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Hint: Think about the parts that make up a fraction.
1. What are the two components?
If you divide \(\frac{5}{6}\) by \(\frac{2}{3}\), what is the first step?
Hint: Consider what you need to do with the divisor.
O Add the fractions
○ Find the reciprocal of \(\frac{5}{6}\)
○ Find the reciprocal of \(\frac{2}{3}\)
○ Subtract the fractions
Port 2. Application and Applysic
Part 2: Application and Analysis
If a recipe requires $\(\frac{3}{4}\)$ cup of sugar and you want to make half the recipe, how much sugar do you need?
do you need? Hint: Think about how to halve a fraction.
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A tank is $(\frac{2}{3})$ full of water. If you use $(\frac{1}{4})$ of the water, how much water is left in the tank? Show your calculations.

Hint: Calculate the amount of water used and subtract it from the total.



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What is the result of dividing \(\frac{9}{10}\) by \(\frac{3}{5}\)?
Hint: Remember to multiply by the reciprocal of the divisor.
\(\frac{3}{2}\)
○ \(\frac{5}{6}\)
○ \(\frac{1}{2}\)
○ \(\frac{3}{10}\)
Which of the following statements are true about dividing fractions?
Hint: Consider the properties of division and multiplication.
☐ The result is always a smaller fraction
☐ You multiply by the reciprocal of the divisor
☐ The result can be greater than 1
Division of fractions is the same as subtraction
Part 3: Evaluation and Creation
Which scenario best represents dividing fractions in a real-world context?
Hint: Think about practical applications of dividing fractions.
O Splitting a cake into equal parts
Calculating the area of a rectangle
Determining how many \(\frac\{1\{3\}\) cup servings are in \(\frac\{2\{3\}\) cup of yogurt
Adding ingredients to a recipe
Evaluate the following statements about dividing fractions and select those that are correct:
Hint: Consider the properties of division and multiplication.
Dividing by a fraction is the same as multiplying by its reciprocal

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☐ The quotient of two fractions is always a fraction
☐ The division of fractions can result in a whole number
☐ The reciprocal of a fraction is always greater than the original fraction
Create a real-world problem involving the division of fractions and provide a solution to your problem.
Hint: Think about a scenario where you need to divide a quantity.
Design a step-by-step guide for a classmate who is struggling with dividing fractions. Include at least three key tips.
Hint: Think about the common challenges faced when dividing fractions.
1. What is the first key tip?
2. What is the second key tip?
3. What is the third key tip?