

## PLANIT Applying Fraction Operations in Real-World Scenarios

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signed f	o this worksheet on applying fraction operations in real-world scenarios. This worksheet is or 14-year-old students and aims to provide a comprehensive review of fraction operations, ddition, subtraction, multiplication, and division.
ad the i	ntroduction carefully and answer the following questions:
1. Wha	t is the main topic of this worksheet?
2. Wha	t age group is this worksheet designed for?
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∘ 1/4 and 2	/0		 
• 1/4 and 2	., 0		 

Section 2	: Adding and Subtracting Fractions
Complete	the following tasks:
1. Add 。	the following fractions: 1/4 + 1/4
0	2/3 + 1/3
0	3/8 + 1/8
	ract the following fractions: 3/4 - 1/4
0	2/3 - 1/3
0	5/6 - 2/6
0	3/0 - 2/0
	Page of 7
3. Solve	e the following word problems:  Tom has 1/2 of a pizza and his friend gives him 1/4 of a pizza. What fraction of a pizza does  Tom have now?
0	A recipe calls for 3/4 cup of sugar. If you want to make half the recipe, how much sugar will you need?

Section 3	: Multiplying and Dividing Fractions
Complete	the following tasks:
1. Mult	iply the following fractions: 1/2 x 3/4
0	2/3 x 3/5
0	1/4 x 2/8
	le the following fractions: 3/4 ÷ 1/4
0	2/3 ÷ 1/3
0	5/6 ÷ 2/6
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	Page of 7
3. Solve	e the following word problems:  A bookshelf has 5 shelves, and each shelf can hold 3/4 of a box of books. If the bookshelf is currently empty, how many boxes of books can you fit on it?

 A group of friends want to share some candy equally. If they have 3/4 of a bag of candy and there are 4 friends, how much candy will each friend get?

Section 4: Real-World Scenarios
Complete the following tasks:
A recipe calls for 2 3/4 cups of flour. If you want to make half the recipe, how much flour will you need?
2. A water tank can hold 3/4 of a gallon of water. If 1/4 of a gallon of water is already in the tank, how much more water can you add?
3. A group of students want to share some money equally. If they have \$3/4 and there are 4 students, how much money will each student get?
Section 5: Challenge Questions
Complete the following tasks:  1. A bakery sells 1/2 of a cake for \$10. If you want to buy the whole cake, how much will it cost?
2. A car travels 3/4 of the distance to a destination in 3 hours. If the total distance is 300 miles, how
many miles does the car travel per hour?
Page of 7
3. A person has \$3/4 of a tank of gas in their car. If they drive 1/4 of the distance to their destination, how much gas will they have left?

Conclusion	
	eet has helped you understand and apply fraction operations in real-world scenarios. simplify your fractions and use the correct operation to solve the problem.
•	have learned and answer the following questions:
1. What did you f	nd most challenging in this worksheet?
2. What did you le	earn about fraction operations?
Extension Activity	
Create your own word or the class and see	d problem that involves applying fraction operations. Share your problem with a partner if they can solve it.

			on operations and your ability to apply nd provide feedback on your understan	ding
nswer the follo	wing questions to demonst	ate your understand	ling:	
1. What is th	e difference between adding	and subtracting fra	ctions?	
2. How do yo	u multiply fractions?			
3 How do yo	u divide fractions?			
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