Introduction (5 minutes)

Read the introduction and understand the purpose of the worksheet.

contexts such as measurement and finance. The activities are tiered to cater to mixed-ability groups, ensuring that each student is challenged and supported appropriately.
Activity 1: Fraction and Decimal Conversion (15 minutes)
Convert the following fractions to decimals:
1. 1/2 = 2. 3/4 = 3. 2/5 =
Convert the following decimals to fractions:
1. 0.5 = 2. 0.25 = 3. 0.75 =

This worksheet is designed to help students apply fractions and decimals to solve multi-step problems in

Activity 2: Measurement Problems (20 minutes)
Solve the following measurement problems:
1. A room is 12.5 meters long and 8.75 meters wide. What is the area of the room?
2. A water tank can hold 3/4 of a gallon of water. If 1/2 gallon of water is already in the tank, how much more water can be added?
3. A recipe calls for 2 1/4 cups of flour. If you want to make half the recipe, how much flour will you need?
Activity 3: Finance Problems (20 minutes)
Solve the following finance problems:
1. A shirt is on sale for 25% off its original price of \$25. How much will you pay for the shirt?
2. A car travels 250 miles in 5 hours. If it travels at a constant rate, how many miles will it travel in 2 1/2 hours?
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3. A group of friends want to share some money equally. If they have \$24 and there are 8 friends, how much money will each friend get?



Activity 4	4: Multi-Step Problems (25 minutes)
Solve the	following multi-step problems:
	rater bottle can hold 2 1/2 liters of water. If 1 3/4 liters of water is already in the bottle, how much re water can be added? If the water costs \$0.50 per liter, how much will it cost to fill the bottle?
allo	roup of friends want to plan a budget for a school event. They have \$1000 to spend and want to cate 1/4 of the budget for decorations, 1/2 for food, and 1/4 for entertainment. How much will y spend on each category?
	arpenter needs to cut a piece of wood that is 3/4 of an inch thick. If he has a piece of wood that 1/2 inches thick, how much will he need to cut off?
Activity	5: Real-World Applications (20 minutes)
	solve a real-world problem that involves applying fractions and decimals. This could be a problem measurement, finance, or any other context. Write a short paragraph explaining the problem and solved it.

Assessment (15 minutes)		
Complete the following assessment to evaluate your understanding of applying fractions and solve multi-step problems:	d decimals to	
1. Convert 3/4 to a decimal.		
2. Solve the problem: A room is 12.5 meters long and 8.75 meters wide. What is the ar	ea of the room?	
3. Solve the problem: A shirt is on sale for 25% off its original price of \$25. How much the shirt?  The shirt?	will you pay for	
Extension Activity (20 minutes)		
Design a dream bedroom, including calculating the area of the room, the perimeter for flooring volume of storage spaces. Create a budget for the project, applying financial literacy skills lesson.		

## **Answer Key**

Check your answers with the answer key:

## Activity 1:

- 1.0.5
- 2.0.75
- 3. 0.4
- 4. 1/2
- 5. 1/4
- 6.3/4

## Activity 2:

- 1. 109.375 square meters
- 2. 1/4 gallon
- 3. 1 1/8 cups

## Activity 3:

- 1. \$18.75
- 2. 125 miles
- 3. \$3

# Activity 4:

- 1. 3/4 liter, \$1.50
- 2. \$250 for decorations, \$500 for food, \$250 for entertainment
- 3. 1 3/4 inches

### Assessment:

- 1. 0.75
- 2. 109.375 square meters
- 3. \$18.75

