PLANIT TEACHERS

Applying Fractions and Decimals to Solve Real-world Problems in Measurement and Finance

Introduction

Welcome to this interactive worksheet on applying fractions and decimals to solve real-world problems in measurement and finance. This worksheet is designed to help you develop practical skills in using fractions and decimals to solve problems in measurement and finance. You will work on hands-on activities and real-life scenarios to apply your knowledge and skills.

Activity 1: Measurement Challenge

Calculate the area of a room that is 12 1/2 feet long and 10 3/4 feet wide.

Show your work and explain your answer. Use a diagram to illustrate your solution.

Activity 2: Financial Calculator

Calculate the interest rate on a loan of $1000 at an interest rate of 5% per annum for 2 years.

Show your work and explain your answer. Use a calculator to check your answer.

Activity 3: Design a Room

Design a room with a length of 15 1/2 feet and a width of 12 3/4 feet. Calculate the area of the room and the cost of flooring at $2.50 per square foot.

Show your work and explain your answer. Use a diagram to illustrate your solution.

Activity 4: Invest in a Business

Invest $5000 at an interest rate of 6% per annum for 5 years. Calculate the total amount of money you will have at the end of 5 years.

Show your work and explain your answer. Use a calculator to check your answer.

Activity 5: Real-world Application

A contractor needs to calculate the cost of materials for a construction project. The project requires 2000 square feet of flooring at $2.50 per square foot, 1000 feet of lumber at $1.50 per foot, and 500 pounds of nails at $0.50 per pound. Calculate the total cost of materials.

Show your work and explain your answer. Use a diagram to illustrate your solution.

Conclusion

Congratulations on completing this interactive worksheet on applying fractions and decimals to solve real-world problems in measurement and finance. You have developed practical skills in using fractions and decimals to solve problems in measurement and finance. Remember to always show your work and explain your answers.

Assessment

Complete all activities and show your work. Explain your answers and use diagrams to illustrate your solutions. Use a calculator to check your answers.

Extension Activity

Design a dream room with a length of 20 feet and a width of 15 feet. Calculate the area of the room and the cost of flooring at $3.00 per square foot. Use a diagram to illustrate your solution and explain your answer.