



## Introduction

Welcome to this interactive worksheet on applying arithmetic skills to solve everyday problems and puzzles! This worksheet is designed to help you develop your problem-solving skills and apply arithmetic operations to real-life scenarios. You will find a variety of questions and activities that will challenge and engage you.

## Section 1: Basic Arithmetic Operations

In this section, you will practice basic arithmetic operations such as addition, subtraction, multiplication, and division. You will apply these operations to solve everyday problems.

### Question 1: Shopping List

You have \$50 to spend on groceries. If you buy 2 bags of apples for \$5 each, 1 loaf of bread for \$3, and 1 carton of eggs for \$2, how much money do you have left?

1. A) \$30
2. B) \$35
3. C) \$40
4. D) \$45

### Question 2: Percentage Increase

A shirt is on sale for 15% off its original price of \$20. How much will you pay for the shirt?

1. A) \$15
2. B) \$16
3. C) \$17
4. D) \$18

## Section 2: Real-Life Applications

*In this section, you will apply arithmetic operations to real-life scenarios. You will solve problems related to travel planning, budgeting, and more.*

### Question 3: Travel Planning

You are planning a road trip that is 240 miles long. If your car gets 30 miles per gallon, and gas costs \$2.50 per gallon, how much will you spend on gas for the trip?

1. A) \$10
2. B) \$15
3. C) \$20
4. D) \$25

### Question 4: Budgeting

You have \$100 to spend on entertainment for the month. You spend \$20 on a movie ticket and \$30 on dinner. What percentage of your budget have you spent?

1. A) 20%
2. B) 30%
3. C) 40%
4. D) 50%

### Section 3: Puzzle Solving

*In this section, you will solve puzzles and brain teasers that require arithmetic skills. You will practice critical thinking and problem-solving.*

#### Question 5: Sudoku

Solve the following Sudoku puzzle:

```
6 0 2 0 0 0 0 0
0 0 0 9 8 7 0 0
0 0 0 0 0 0 0 5
3 0 0 0 2 0 0 9
0 9 0 0 3 0 0 0
0 0 0 0 0 9 8 0
0 0 0 0 0 4 3 0
0 3 0 0 0 0 2 0
0 0 9 0 5 0 0 1
```

## Section 4: Critical Thinking

*In this section, you will solve critical thinking puzzles that require arithmetic skills. You will practice logical reasoning and problem-solving.*

### Question 6: Logic Puzzle

There are 3 switches, but they are not labelled. Each switch corresponds to one of three light bulbs in a room. Each light bulb is either on or off. You can turn the lights on and off as many times as you want, but you can only enter the room one time to observe the bulbs. How can you figure out which switch corresponds to which light bulb?

## Conclusion

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*We hope you enjoyed this interactive worksheet on applying arithmetic skills to solve everyday problems and puzzles! Remember to practice regularly and challenge yourself with more complex problems to develop your problem-solving skills.*

## Answer Key

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*Here are the answers to the questions and activities in this worksheet:*

1. 1. B) \$35
2. 2. B) \$17
3. 3. C) \$20
4. 4. C) 40%
5. 5. (Solution to Sudoku puzzle)
6. 6. (Solution to logic puzzle)

