

# **Inverse Operations Homework Sheet**

Student Name:		
Class:		
Due Date:		

#### Introduction

### Inverse Operations: Unlocking the Secrets of Addition and Subtraction

Inverse operations are a fundamental concept in mathematics that helps students understand the relationship between different mathematical operations. In this homework sheet, we will focus on addition and subtraction as inverse operations. By the end of this activity, you will be able to explain the concept of inverse operations and provide examples of how addition and subtraction are related as inverse operations.

# **Understanding Inverse Operations**

Read the following definition and examples:

- Inverse operations are two operations that "undo" each other. For example, addition and subtraction are inverse operations because they have opposite effects.
- Example: 2 + 3 = 5 and 5 3 = 2

Questions:						
1. What are inverse operations?						
2. Provide an example of two inverse operations.						

# Activity 1: Inverse Operations Matching Game

Match each addition equation with its corresponding subtraction equation.

# **Addition Equation Subtraction Equation**

2 + 3 = 5	5 - 3 = 2
1 + 4 = 5	5 - 1 = 4
6 + 2 = 8	8 - 2 = 6
3 + 1 = 4	4 - 1 = 3
5 + 2 = 7	7 - 2 = 5

# Activity 2: Inverse Operations Word Problems

Solve the following word problems and identify the inverse operation for each:

	Tom has 5 pencils in his pencil case. He gives 2 pencils to his friend. How many pencils does Tom have left?				
	Sarah has 8 crayons in her box. She adds 4 more crayons to her box. How many crayons does Sarah have now?				
3.	A bookshelf has 15 books on it. If 7 books are removed, how many books are left on the bookshelf?				
4.	A toy car track is 12 blocks long. If 5 blocks are added to the track, how many blocks long is the track now?				

# Activity 3: Inverse Operations Patterns

	ing patterns and id	entify the invers	se operation for	each:	
3 + 2 = 5, 5 - 2 =	= ?				
1.1.001	2				
1 + 1 = 2, 2 - 1 =	= ?				
4 + 1 = 5, 5 - 1 =	= ?				
2 + 6 = 8, 8 - 6 =	= ?				

# Activity 4: Create Your Own Inverse Operations Word Problems

Create 2-3 word problems that demonstrate the concept of inverse operations. Make sure to include the solution and the inverse operation for each word problem.					

# Activity 5: Inverse Operations Bingo

Create a bingo card with addition and subtraction equations. Play a game of bingo with a partner or family member, using the inverse operations concept to solve the equations.					

# Success Criteria

To successfully complete this assignment, you should be able to:

- Explain the concept of inverse operations
- Identify examples of addition and subtraction as inverse operations
- Complete the activities with accuracy and attention to detail
- Use correct mathematical vocabulary and notation

#### Self-Assessment

Throughout this assignment, take time to reflect on your understanding of the concept of inverse operations. Ask yourself:

- Do I understand the concept of inverse operations?
- · Can I identify examples of addition and subtraction as inverse operations?
- Am I completing the activities with accuracy and attention to detail?
- Do I need help or support in any area?

# Conclusion

Congratulations! You have completed the inverse operations homework sheet. Remember to review your work and ask for help if you need it. Keep practicing, and you will become a master of inverse operations!