



PLANIT
TEACHERS

Introduction to Algebra and Basic Literacy Skills

Homework Assignment

Student Name: _____

Class: _____

Due Date: _____

Introduction

Welcome to this homework assignment, designed to introduce you to the fundamental concepts of algebra and reinforce basic literacy skills. This assignment is expected to take approximately 30-40 minutes to complete.

Learning Objectives:

- Understand the basic concepts of algebra, including variables, constants, and simple equations
- Apply algebraic thinking to solve real-world problems
- Demonstrate an understanding of basic literacy skills, including reading comprehension and writing
- Develop critical thinking and problem-solving skills through independent learning

Variables and Constants:

Write a short paragraph explaining the difference between variables and constants in algebra. Provide examples of each.

Simple Equations:

Solve the following equations for x:

1. $2x + 5 = 11$

2. $x - 3 = 7$

3. $4x = 24$

Real-World Problem:

Tom has been saving money for a new bike and has \$120 in his savings account. He wants to buy a bike that costs \$180. If he saves \$12 per week, how many weeks will it take him to have enough money to buy

the bike? Use algebra to solve the problem.

Reading Comprehension:

Read the following passage and answer the questions that follow:

"The city of Paris is known for its beautiful architecture and rich history. The Eiffel Tower, built in 1889, is one of the most famous landmarks in the world. Visitors from all over the world come to see the tower and enjoy the city's cuisine."

1. What is the main topic of the passage?

2. What is the name of the famous landmark mentioned in the passage?

3. What do visitors come to enjoy in the city?

Writing:

Write a short paragraph (5-7 sentences) about your favorite hobby or activity. Be sure to use descriptive language and proper grammar and spelling.

Challenge Problem:

Solve the following equation for x:

$$x/2 + 3 = 9$$

Creative Writing:

Write a short story (1-2 pages) that incorporates algebraic concepts. For example, you could write about a character who uses algebra to solve a mystery or achieve a goal.

Success Criteria

Success Criteria:

- Completion of all activities in the main section
- Demonstration of understanding of algebraic concepts and literacy skills
- Use of proper grammar, spelling, and punctuation in writing activities
- Showing of work and explanation of reasoning in algebra activities

Parent/Guardian Notes

Parent/Guardian Notes:

Encourage your child to take their time and read the instructions carefully.

Provide a quiet and comfortable workspace for your child to complete the assignment.

Offer support and guidance as needed, but allow your child to complete the work independently.

Review the assignment with your child and provide feedback on their work.

Time Management Guidelines

Time Management Guidelines:

Allocate 15 minutes for the algebra section

Allocate 15 minutes for the literacy section

Allocate 10 minutes for the extension activities

Take breaks as needed to avoid fatigue and maintain focus

Self-Assessment Opportunities:

Review your work carefully before submitting it.

Ask yourself:

- Did I complete all the activities?
- Did I show my work and explain my reasoning?
- Did I use proper grammar, spelling, and punctuation in my writing?
- Do I understand the algebraic concepts and literacy skills demonstrated in the assignment?

Additional Activities

Word Search:

Find and circle the following algebra-related words in the word search below:

A E L M O R T C A E O I M R T A E S T A E T E R A C E S U T O E E Q U A T I O N S A E R T A E S T A E O I M

Words to find: VARIABLE, CONSTANT, EQUATION, ALGEBRA

Crossword Puzzle:

Complete the crossword puzzle below using algebra-related vocabulary:

ACROSS 1. Type of equation (5) 2. Algebraic symbol (3) 3. Solution to an equation (4)

DOWN 1. Math operation (4) 2. Algebraic concept (6)

Answers:

ACROSS 1. LINEAR 2. VAR 3. ROOT

DOWN 1. ADDS 2. VARIABLE

Conclusion

Congratulations on completing this homework assignment! Remember to review your work carefully and ask for help if you need it. Keep practicing your algebra and literacy skills to become a proficient problem-solver and communicator.