

Introduction

This diagnostic assessment is designed to evaluate students' understanding of basic algebraic expressions, literary devices, linear equations, and character development in a short story.

Section 1: Multiple Choice Questions

Choose the correct answer for each question.

1. Simplify the expression: $2x + 5 - 3x$
 1. a) $-x + 5$
 2. b) $x + 5$
 3. c) $-x - 5$
 4. d) $x - 5$
2. Solve for x : $2x = 6$
 1. a) $x = 2$
 2. b) $x = 3$
 3. c) $x = 4$
 4. d) $x = 5$
3. Identify the type of equation: $2x + 3 = 5$
 1. a) Linear equation
 2. b) Quadratic equation
 3. c) Exponential equation
 4. d) Polynomial equation
4. Identify the literary device: "The sun smiled down on us."
 1. a) Metaphor
 2. b) Simile
 3. c) Personification
 4. d) Hyperbole
5. Which literary device is used in the phrase: "He ran like a cheetah"?
 1. a) Metaphor
 2. b) Simile
 3. c) Personification
 4. d) Alliteration
6. Identify the literary device: "The city was a beast that swallowed us whole."
 1. a) Metaphor
 2. b) Simile
 3. c) Personification
 4. d) Symbolism
7. What is the main character's motivation in a story?
 1. a) To achieve a goal
 2. b) To overcome a challenge
 3. c) To learn a lesson
 4. d) To entertain the reader
8. How does an author develop a character's traits?
 1. a) Through dialogue
 2. b) Through description
 3. c) Through action

4. d) All of the above

Section 2: Short Answer Questions

Answer each question in complete sentences.

1. Solve the equation: $x + 2 = 7$

2. Graph the equation: $y = 2x - 3$

3. Analyze the use of metaphor in a given text.

4. Describe a character's arc in a short story.

Section 3: Essay Question

Analyze a given short story, identifying and explaining the use of literary devices and character development techniques.

Section 4: Problem-Solving

Solve each problem and show your work.

1. Solve the equation: $2x + 5 = 11$

2. Create a simple algebraic expression to represent a real-world scenario.

Answer Key

Check your answers with the answer key below.

1. a) $-x + 5$
2. b) $x = 3$
3. a) Linear equation
4. c) Personification
5. b) Simile
6. a) Metaphor
7. a) To achieve a goal
8. d) All of the above

Marking Guide

Use the marking guide to assess your work.

1. Accuracy and completeness of answers (40%)
2. Clarity and coherence of written responses (30%)
3. Depth of analysis and insight (30%)

