



Introduction

Welcome to the Addition Proficiency Assessment, designed for UK Primary School students aged 13-15. This 30-minute formative assessment evaluates students' understanding of the concept of addition, their ability to apply addition to solve real-world problems, and their proficiency in adding single-digit and multi-digit numbers.

Learning Objectives

1. Understand the concept of addition
2. Apply addition to solve real-world problems
3. Demonstrate proficiency in adding single-digit and multi-digit numbers

Foundation Level

Complete the following tasks:

1. Multiple Choice: What is the result of $2 + 2$?

- A) 3
- B) 4
- C) 5
- D) 6

2. Short Answer: If you have 5 pencils in your pencil case and your friend gives you 2 more, how many pencils do you have now?

3. Project-Based: Create a simple addition problem using real-world objects (e.g., blocks, counting bears) and solve it.

Core Level

Complete the following tasks:

1. Multiple Choice: What is the result of $14 + 25$?

- A) 39
- B) 40
- C) 41
- D) 42

2. Short Answer: A bookshelf has 5 shelves, and each shelf can hold 3 books. If the bookshelf is currently empty, how many books can be placed on it in total?

3. Project-Based: Create a word problem involving addition (e.g., "Tom has 15 pencils and his sister gives him 7 more...") and solve it.

Extension Level

Complete the following tasks:

1. Multiple Choice: What is the result of $45 + 27$?
 - A) 72
 - B) 71
 - C) 70
 - D) 69
2. Short Answer: A bakery sells 250 loaves of bread per day. If they receive a new shipment of 175 loaves, how many loaves do they have in total?

3. Project-Based: Create a real-world scenario involving multi-digit addition (e.g., "A company has 350 employees in one office and 275 employees in another...") and solve it.

Mixed Ability Differentiation

Complete the following tasks:

Foundation:

Use visual aids to help solve addition problems

Core:

Use mental math to solve addition problems

Extension:

Create a word problem involving multi-digit addition and solve it

Real-World Applications

Complete the following tasks:

1. Shopping: If you have £15 to spend on toys and you buy a toy for £8, how much money do you have left?

2. Cooking: If a recipe requires 2 cups of flour and you already have 1 cup, how many more cups do you need?

Assessment Rubric

Evaluate your work using the following criteria:

1. Foundation Level: Accurately solve simple addition problems and demonstrate an understanding of the concept of addition
2. Core Level: Accurately solve multi-digit addition problems and apply addition to real-world scenarios
3. Extension Level: Accurately solve complex addition problems and create new scenarios and problems

Conclusion

Review your answers and reflect on your understanding of addition:

1. Identify areas for improvement and create a plan to practice and review addition concepts

Additional Resources

Use the following resources to support your learning:

1. Glossary: Define key terms related to addition (e.g., sum, total, etc.)
2. Formula Sheet: Provide a list of common addition formulas and equations
3. Answer Key: Provide answers to all questions and tasks for teacher reference

