Diagnostic Assessment: Basic Addition and Subtraction Concepts

Introduction

This diagnostic assessment is designed to evaluate your understanding of basic addition and subtraction concepts. The assessment consists of multiple-choice and short-answer questions that align with the learning objectives of understanding basic addition and subtraction concepts, identifying and writing numbers up to 100, and demonstrating an understanding of basic math vocabulary and symbols.

Section 1: Multiple-Choice Questions

Choose the correct answer for each question.

1. What is the result of 2 + 2?
   A) 3
   B) 4
   C) 5
   D) 6

2. If I have 5 pencils and I give 2 to my friend, how many pencils do I have left?
   A) 3
   B) 5
   C) 7
   D) 10

3. What is the symbol for addition?
   A) +
   B) -
   C) x
   D) /

4. If I have 10 crayons and I add 2 more, how many crayons do I have now?
   A) 10
   B) 12
   C) 15
   D) 20

5. What is the result of 5 - 1?
   A) 4
   B) 5
   C) 6
   D) 7

5. What is the result of 5 - 1?
   A) 4
   B) 5
   C) 6
   D) 7

Choose the correct answer for each question.

6. If I have 8 blocks and I take away 3, how many blocks do I have left?
   A) 5
   B) 6
   C) 7
   D) 8

7. What is the concept of adding two numbers together called?
   A) Subtraction
   B) Addition
   C) Multiplication
   D) Division

8. If I have 15 pennies and I give 5 to my brother, how many pennies do I have left?
   A) 10
   B) 12
   C) 15
   D) 20

9. What is the symbol for subtraction?
   A) +
   B) -
   C) x
   D) /

10. If I have 9 buttons and I add 1 more, how many buttons do I have now?
    A) 9
    B) 10
    C) 11
    D) 12

Section 2: Short-Answer Questions

Show your work and answer the questions to the best of your ability.

1. If I have 12 pencils and I give 4 to my friend, how many pencils do I have left?

2. A bookshelf has 15 books on it. If 3 more books are added, how many books are on the bookshelf now?

Section 2: Short-Answer Questions (continued)

Show your work and answer the questions to the best of your ability.

3. If I have 18 crayons and I take away 2, how many crayons do I have left?

4. A basket contains 20 apples. If 5 apples are taken out, how many apples are left in the basket?

5. If I have 25 pennies and I give 10 to my sister, how many pennies do I have left?

Activity 1: Addition and Subtraction Word Problems

Read each word problem and choose the correct answer.

1. Tom has 5 pencils in his pencil case. He adds 2 more pencils. How many pencils does Tom have now?
   A) 5
   B) 7
   C) 10
   D) 12

2. Sarah has 15 crayons in her box. She takes away 3 crayons. How many crayons does Sarah have left?
   A) 12
   B) 15
   C) 18
   D) 20

Activity 2: Math Vocabulary Match

Match the math vocabulary word to its correct definition.

1. Addition
   A) A mathematical operation that means combining two or more numbers
   B) A mathematical operation that means finding the difference between two numbers
   C) A sign or character used to represent a mathematical operation
   D) A numerical value used to represent a quantity

2. Subtraction
   A) A mathematical operation that means combining two or more numbers
   B) A mathematical operation that means finding the difference between two numbers
   C) A sign or character used to represent a mathematical operation
   D) A numerical value used to represent a quantity

Activity 3: Create Your Own Word Problem

Create your own word problem using addition or subtraction. Make sure to include the answer.

Conclusion

This diagnostic assessment is designed to evaluate your understanding of basic addition and subtraction concepts. Remember to show your work and answer the questions to the best of your ability. Good luck!

Reflection and Feedback

Individual Reflection:

1. What did you learn from this assessment?

2. What challenges did you face during the assessment?

3. What do you think you need to work on to improve your understanding of basic addition and subtraction concepts?