

**2nd Junior**  
**SPECIAL SUBJECT: MATHS**  
**III TERM – TEST**

## What is Algebra?

- 1) Choose true or false.
- |                                                                          |              |
|--------------------------------------------------------------------------|--------------|
| a. Algebra is like puzzles.                                              | True / False |
| b. The variables are numbers.                                            | True / False |
| c. We can find values in Algebra.                                        | True / False |
| d. If we have the following problem: $2 + x = 5$ . The answer is $x=3$ . | True / False |

- 2) Write an equation for each situation and then, the answer. Follow the example.

**Use Y as the variable.**

*Example:*

*Mike has 10 books. He gives y to his sister.*

*Now, he has 5 books.*

$$10 - y = 5$$

$$y = 5$$

- |                                                                                                                                                                                          |                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| a. 114 birds were sitting in a tree. 21 more birds flew up to the tree. How many birds were there altogether in the tree?                                                                | <div style="background-color: #4a7ebb; height: 15px; width: 100%;"></div> <div style="background-color: #70ad47; height: 15px; width: 100%;"></div> |
| b. Beth has 74 crayons. She gives 25 of them away to Jen. How many crayons does Beth have left?                                                                                          | <div style="background-color: #4a7ebb; height: 15px; width: 100%;"></div> <div style="background-color: #70ad47; height: 15px; width: 100%;"></div> |
| c. The class is doing a math activity. There are 5 groups of 4 students. How many students are there in the class?                                                                       | <div style="background-color: #4a7ebb; height: 15px; width: 100%;"></div> <div style="background-color: #70ad47; height: 15px; width: 100%;"></div> |
| d. She counted her crayons and found out that she has 80 crayons which she will place in crayon boxes. Every crayon box can contain 8 crayons. How many crayon boxes does she need?      | <div style="background-color: #4a7ebb; height: 15px; width: 100%;"></div> <div style="background-color: #70ad47; height: 15px; width: 100%;"></div> |
| e. There are 6 houses on a small street. Each house has a family with 4 children, 2 cats and a dog. How many children are there living on this street?                                   | <div style="background-color: #4a7ebb; height: 15px; width: 100%;"></div> <div style="background-color: #70ad47; height: 15px; width: 100%;"></div> |
| f. Their plastic Christmas tree comes in 3 parts. The bottom part has 8 branches. The middle part has 6 branches, and the top part has 4 branches. How many branches are there in total? | <div style="background-color: #4a7ebb; height: 15px; width: 100%;"></div> <div style="background-color: #70ad47; height: 15px; width: 100%;"></div> |