

Lesson Plan

Basic Algebra

Work out the following code if the following is applicable:

- $I = 10$
- $n = 4$
- $s = 8$
- $p = 9$
- $r = 5$
- $e = 233$

Using the above inscription work out the following word:

- 10, 4, 8, 10, 5, 2, 3, 3

The answer should be Inspire.

In algebra we use letters to represent numbers. Using our example again, we can convert the word Inspire into a total by:

- $I + n + s + p + i + r + e$

Converting the letters into numbers as above the calculation above comes to:

- $10 + 4 + 8 + 9 + 10 + 5 + 233 = 279$

When multiplying a number with a letter we normally write it as follows:

- $3i + 2n$

which means we multiply 3 by the number represented by i , 10, and likewise 2 by n , 4 and then add the two totals together.

The answer being $3 \times 10 = 30$

- $2 \times 4 = 8$
- $30 + 8 = 38$

Exercise:

Ask the children to form a code for their first name and add up the result. Repeat the same process for subtraction, multiplication, and division. With Subtraction, there will be a need to explain how to breakdown a list of numbers: