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## Fundamental Concepts of Algebra

### Key Concepts

- Constants and Variables
- Matchstick Patterns
- Use of Variables
- Terms (Constant, Like, Unlike)
- Coefficient
- Algebraic Expressions
- Monomials, Binomial and Trinomial
- Polynomial

**Algebra** is a branch of Mathematics which uses numerals (0 to 9), signs of basic operations (+, −, × and ÷), letters of the English alphabet (a to z) and letters of the Greek alphabet (α, π, φ etc.) to represent some unknown terms or to generalize a result or pattern. Use of letters allows us to form rules and formulae in general.

Let's look at the following examples to understand how patterns are generalized.

(a) On her birthday, Sana wants to distribute 4 toffees to each student of her class.

For two students, she needs  $4 \times 2 = 8$  toffees, whereas for three students she needs  $4 \times 3 = 12$  toffees and so on. Clearly, the number of toffees increases as the number of students increases. We can see a pattern in the table given alongside and generalize it to find the subsequent terms as follows:

Number of toffees required = Number of toffees for each student × Number of students =  $4n$ , where  $n$  represents the number of students.

The expression  $4n$  is the general expression for the number of toffees required when 4 toffees are given to each student.

(b) Consider the pattern,

$$1 + 3 = 4 = 2^2$$

$$1 + 3 + 5 = 9 = 3^2$$

$$1 + 3 + 5 + 7 = 16 = 4^2$$

⋮

So, sum of first  $n$  odd numbers =  $n^2$

### Constants and Variables

A quantity whose numerical value is fixed is known as a **constant** whereas a quantity whose numerical value changes is known as a **variable**. For example, 2, −5,  $10\frac{3}{7}$ , etc., are constants and  $x, y, z, 6a$ , etc., are variables. Variables are also known as **literal numbers** or

### Maths Info

The word algebra is derived from the title of the book 'Aljebar w'al almugabalah'.

Number of students	Number of toffees
1	$4 \times 1 = 4$
2	$4 \times 2 = 8$
3	$4 \times 3 = 12$
⋮	⋮

### Maths Info

A combination of constants and variables is a variable.

# Fundamental Concepts Guide Answer Key

**Michael Brown**



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