

# APTITUDE - SIMPLIFICATION

## Advertisements

While simplifying an expression, the VBODMAS must be learnt as V,B,O,D,M,A,S where every alphabet have a special stand which are as follows:

1. Virnaculum
2. Bracket
3. Of
4. Division
5. Multiplication
6. Addition
7. Subtraction

We should follow the order strictly.

Modulus of a real number  $x$  is a positive value. Its modulus is denoted by  $|x|$ . Thus ,  $|5| = 5$  and  $|-5| = 5$ .

## Important Formulae

$$\begin{aligned}(a+b)^2 &= (a^2+b^2+2ab) \\(a-b)^2 &= (a^2+b^2-2ab) \\(a+b)^2 - (a-b)^2 &= 4ab \\(a+b)^2 + (a-b)^2 &= 2(a^2+b^2) \\(a+b)(a-b) &= (a^2-b^2) \\(a+b+c)^2 &= (a^2+b^2+c^2)+2(ab+bc+ca) \\(a+b)^3 &= a^3+b^3+3ab(a+b) \\(a-b)^3 &= a^3-b^3-3ab(a-b) \\(a^3+b^3) &= (a+b)(a^2+b^2-ab) \\(a^3-b^3) &= (a-b)(a^2+b^2+ab)\end{aligned}$$

## Solved Examples

[Solved Examples](#)