

# Grade 5 Math Formulas

## Basic Arithmetic Formulas

Based on Maharashtra Board Syllabus (NEP 2025-26)

### Note:

This document contains key formulas and concepts related to Basic Arithmetic for Grade 5.

### Place Value

- Place value of a digit = Digit multiplied by the value of its position (e.g., in 523, place value of 2 is 2 multiplied by 10 = 20)
- Face value of a digit = The digit itself

### Operations on Whole Numbers

- Addition:  $\text{Sum} = \text{Addend} + \text{Addend}$
- Subtraction:  $\text{Difference} = \text{Minuend} - \text{Subtrahend}$
- Multiplication:  $\text{Product} = \text{Multiplicand multiplied by Multiplier}$
- Division:  $\text{Dividend} = \text{Divisor multiplied by Quotient} + \text{Remainder}$

### Properties of Operations (Basic)

- Commutative Property of Addition:  $a + b = b + a$

- Commutative Property of Multiplication:  $a$  multiplied by  $b = b$  multiplied by  $a$
- Associative Property of Addition:  $(a + b) + c = a + (b + c)$
- Associative Property of Multiplication:  $(a \text{ multiplied by } b) \text{ multiplied by } c = a \text{ multiplied by } (b \text{ multiplied by } c)$
- Distributive Property of Multiplication over Addition:  $a \text{ multiplied by } (b + c) = a \text{ multiplied by } b + a \text{ multiplied by } c$
- Identity Property of Addition:  $a + 0 = a$  (0 is the additive identity)
- Identity Property of Multiplication:  $a \text{ multiplied by } 1 = a$  (1 is the multiplicative identity)
- Zero Property of Multiplication:  $a \text{ multiplied by } 0 = 0$

*End of Formulas - Basic Arithmetic*

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