



Class 6 Important Formulas

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Chapter 4 – Basic Geometrical Ideas

If a, b, c , etc are whole numbers, then

1. $a + b$ is a whole number. [Closure property of addition]
2. $a \times b$ is a whole number. [Closure property of multiplication]
3. $(a - b)$ may or may not be a whole number.
4. $a + b$ may or may not be a whole number
5. $a + b = b + a$
6. $a \times b = b \times a$
7. $a - b$ is not equal to $b - a$ if a and b are unequal.
8. $a + b$ is not equal to $b + a$ if a and b are unequal.
9. $a + b = b + a$ if and only if $a = b$.
10. $(a + b) + c = a + (b + c)$ [Associativity of addition].
11. $a \times (b \times c) = (a \times b) \times c$ [Associativity of Multiplication].
12. $a \times (b + c) = a \times b + a \times c$ [Distributive of multiplication over addition].
13. $a \times (b - c) = a \times b - a \times c$, if $b > c$ [Distributive of multiplication over Subtraction].
14. $a + 0 = a = 0 + a$ [Existence of multiplicative identity].
15. $a \times 0 = 0 = 0 \times a$ [Existence of multiplication identity]
16. $a \times 1 = a = 1 \times a$
17. $a + 1 = a$.
18. In general $(a - b) - c \neq a - (b - c)$.
19. In general $(a + b) + c \neq a + (b + c)$.
20. If a is dividend, b ($\neq 0$) divisor, q quotient and r remainder, then $a = bq + r$.
[Division algorithm]