

Class 6
Important Formulas
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]

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- [Knowing our Numbers Class 6 Ex 1.2](#)
- [Knowing our Numbers Class 6 Exercise 1.3](#)

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Chapter 1 Knowing Our Numbers

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- [Large Numbers In Practice](#)
- Using Brackets
- [Roman Numerals Chart](#)

Chapter 2 Whole Numbers

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- Whole Numbers
- The Number Line
- [Properties of Whole Numbers](#)
- Patterns In Whole Numbers

Chapter 3 Playing With Numbers

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- [Factors And Multiples Worksheet](#)
- [Prime And Composite Numbers Chart and Worksheets](#)
- [Divisibility Rules 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3,2](#)
- Common Factors And Common Multiples
- Some More Divisibility Rules
- [Prime Factorisation Worksheets](#)
- [Highest Common Factor Worksheets](#)
- [Lowest Common Multiple Worksheet](#)
- [Hcf And Lcm Formulas, Problems with Solutions](#)

Chapter 4 Basic Geometrical Ideas

- Introduction
- [Points, A Line Segment, Ray, and A Line](#)
- [Intersecting Lines and Parallel Lines](#)
- Curves
- [Types of Polygons](#)
- [What is Angle in Geometry](#)
- [Median, altitude of Triangle](#)
- [What is a Quadrilateral](#)
- [Parts of the Circle](#)

Chapter 5 Understanding Elementary Shapes

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- [Comparison of Line Segments](#)
- [Different Types of Angles](#)
- [Measure an Angle with a Protractor](#)
- [Classification of Triangles](#)
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Chapter 9 Data Handling

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- [Recording Data](#)
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Chapter 10 Mensuration

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- [Perimeter of Closed Shapes](#)
- [Find Area of Plane Figures](#)

Chapter 11 Algebra

- Introduction
- Matchstick Patterns
- The Idea Of A Variable
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- More Examples Of Variables
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- Using Expressions Practically
- What Is An Equation?
- Solution Of An Equation

Chapter 12 Ratio and Proportion

- Introduction
- [What is Ratio and Proportion](#)
- Unitary Method

Chapter 13 Ratio and Proportion

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- Making Symmetric Figures: Ink-blot Devils
- Figures with Two Lines of Symmetry
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- [Reflection and Symmetry](#)

Chapter 14 Practical Geometry

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- Introduction
- [Construction of a Circle](#)
- [Construction of a Line Segment](#)
- [Construction of a Perpendicular Bisector](#)
- [Construction of Angles using compass ruler](#)