

Class 6
Important Formulas
Chapter 6 – Integers

1. The numbers. . . , -4, -3, -1, 0, 1, 2, 3, 4,. . . etc. are integers.
2. 1, 2, 3, 4, 5. . . are positive integers and -1,-2, -3,... are negative integers.
3. 0 is an integer which is neither positive nor negative.
4. On an integer number line, all numbers to the right of 0 are positive integers and all numbers to the left of 0 are negative integers.
5. 0 is less than every positive integer and greater than every negative integer.
6. Every positive integer is greater than every negative integer.
7. Two integers that are at the same distance from 0, but on opposite sides of it are called opposite numbers.
8. The greater the number, the lesser is its opposite.
9. The sum of an integer and its opposite is zero.
10. The absolute value of an integer is the numerical value of the integer without regard to its sign. The absolute value of an integer a is denoted by $|a|$ and is given by
$$|a| = \begin{cases} a, & \text{if } a \text{ is positive or } 0 \\ -a, & \text{if } a \text{ is a negative} \end{cases}$$
11. The sum of two integers of the same sign is an integer of the same sign whose absolute value is equal to the sum of the absolute values of the given integers.
12. The sum of two integers of opposite signs is an integer whose absolute value is the difference of the absolute values of addend and whose sign is the sign of the addend having greater absolute value.
13. To subtract an integer b from another integer a , we change the sign of b and add it to a . Thus, $a - b = a + (-b)$.
14. All properties of operations on whole numbers are satisfied by these operations on integers.
15. If a and b are two integers, then $(a - b)$ is also an integer.
16. $-a$ and a are negative or additive inverses of each other.
17. All the properties applicable to whole numbers are applicable to integers in addition, the subtraction operation has the closure property.

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- [Whole Numbers Class 6 Ex 2.1](#)

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- [Playing with Numbers Class 6 Ex 3.1](#)
- [Playing with Numbers Class 6 Ex 3.2](#)
- [Playing with Numbers Class 6 Ex 3.3](#)
- [Playing with Numbers Class 6 Ex 3.4](#)
- [Playing with Numbers Class 6 Exercise 3.5](#)
- [Playing with Numbers Class 6 Exercise 3.6](#)
- [Playing with Numbers Class 6 Exercise 3.7](#)

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- [Basic Geometrical Ideas Class 6 Ex 4.1](#)
- [Basic Geometrical Ideas Class 6 Ex 4.2](#)
- [Basic Geometrical Ideas Class 6 Ex 4.3](#)
- [Basic Geometrical Ideas Class 6 Exercise 4.4](#)
- [Basic Geometrical Ideas Class 6 Exercise 4.5](#)
- [Basic Geometrical Ideas Class 6 Exercise 4.6](#)

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- [Understanding Elementary Shapes Class 6 Ex 5.1](#)
- [Understanding Elementary Shapes Class 6 Ex 5.2](#)
- [Understanding Elementary Shapes Class 6 Ex 5.3](#)
- [Understanding Elementary Shapes Class 6 Ex 5.4](#)
- [Understanding Elementary Shapes Class 6 Ex 5.5](#)
- [Understanding Elementary Shapes Class 6 Exercise 5.6](#)
- [Understanding Elementary Shapes Class 6 Exercise 5.7](#)
- [Understanding Elementary Shapes Class 6 Exercise 5.8](#)
- [Understanding Elementary Shapes Class 6 Exercise 5.9](#)

Class 6 Maths NCERT Solutions Chapter 6

- [Integers Class 6 Ex 6.1](#)
- [Integers Class 6 Ex 6.2](#)
- [Integers Class 6 Exercise 6.3](#)

Class 6 Maths NCERT Solutions Chapter 7

- [Fractions Class 6 Ex 7.1](#)

- [Fractions Class 6 Ex 7.2](#)
- [Fractions Class 6 Ex 7.3](#)
- [Fractions Class 6 Exercise 7.4](#)
- [Fractions Class 6 Exercise 7.5](#)
- [Fractions Class 6 Exercise 7.6](#)

Class 6 Maths NCERT Solutions Chapter 8

- [Decimals Class 6 Ex 8.1](#)
- [Decimals Class 6 Ex 8.2](#)
- [Decimals Class 6 Ex 8.3](#)
- [Decimals Class 6 Exercise 8.4](#)
- [Decimals Class 6 Exercise 8.5](#)
- [Decimals Class 6 Exercise 8.6](#)

Class 6 Maths NCERT Solutions Chapter 9

- [Data Handling Class 6 Ex 9.1](#)
- [Data Handling Class 6 Ex 9.2](#)
- [Data Handling Class 6 Exercise 9.3](#)
- [Data Handling Class 6 Exercise 9.4](#)

Class 6 Maths NCERT Solutions Chapter 10

- [Mensuration Class 6 Ex 10.1](#)
- [Mensuration Class 6 Ex 10.2](#)
- [Mensuration Class 6 Exercise 10.3](#)

Class 6 Maths NCERT Solutions Chapter 11

- [Algebra Class 6 Ex 11.1](#)
- [Algebra Class 6 Ex 11.2](#)
- [Algebra Class 6 Exercise 11.3](#)
- [Algebra Class 6 Exercise 11.4](#)
- [Algebra Class 6 Exercise 11.5](#)

Class 6 Maths NCERT Solutions Chapter 12

- [Ratio and Proportion Class 6 Ex 12.1](#)
- [Ratio and Proportion Class 6 Ex 12.2](#)
- [Ratio and Proportion Class 6 Exercise 12.3](#)

Class 6 Maths NCERT Solutions Chapter 13

- [Symmetry Class 6 Ex 13.1](#)
- [Symmetry Class 6 Exercise 13.2](#)
- [Symmetry Class 6 Exercise 13.3](#)

Class 6 Maths NCERT Solutions Chapter 14

- [Practical Geometry Class 6 Ex 14.1](#)
- [Practical Geometry Class 6 Ex 14.2](#)
- [Practical Geometry Class 6 Ex 14.3](#)
- [Practical Geometry Class 6 Exercise 14.4](#)
- [Practical Geometry Class 6 Exercise 14.5](#)
- [Practical Geometry Class 6 Exercise 14.6](#)

Chapter 1 Knowing Our Numbers

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

Chapter 2 Whole Numbers

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

Chapter 3 Playing With Numbers

- Introduction
- [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

- Introduction

- [Comparison of Line Segments](#)
- [Different Types of Angles](#)
- [Measure an Angle with a Protractor](#)
- [Classification of Triangles](#)
- [Different Types of Quadrilaterals](#)
- [Different types of Three Dimensional Shapes](#)

Chapter 6 Integers

- [Introduction](#)
- [Integers Examples](#)
- [Operations with Integers Worksheet](#)

Chapter 7 Fractions

- [Introduction](#)
- [Types of fraction](#)
- [Fraction on The Number Line](#)
- [Proper Fractions](#)
- [Improper And Mixed Fractions](#)
- [Equivalent Fractions Chart](#)
- [Simplest Form Of A Fraction](#)
- [Like Fractions](#)
- [Comparing Fractions Worksheets](#)
- [Addition And Subtraction Of Fractions](#)

Chapter 8 Decimals

- [Introduction](#)
- [Tenths and Hundreths](#)
- [Convert Unlike Decimals to like decimals](#)
- [Using Decimals](#)
- [Addition Of Numbers With Decimals](#)
- [Subtraction Of Decimals](#)

Chapter 9 Data Handling

- [Introduction](#)
- [Recording Data](#)
- [Collection and Organisation of Data](#)
- [Pictograph Examples and Worksheets](#)
- [Interpretation of A Pictograph](#)
- [Drawing A Pictograph](#)
- [A Bar Graph](#)

Chapter 10 Mensuration

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

Chapter 11 Algebra

- Introduction
- Matchstick Patterns
- The Idea Of A Variable
- More Matchstick Patterns
- More Examples Of Variables
- Use Of Variables In Common Rules
- Expressions With Variables
- 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

- Introduction
- Making Symmetric Figures: Ink-blot Devils
- Figures with Two Lines of Symmetry
- [Figures with Multiple \(more than two\) Lines of Symmetry](#)
- [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](#)