# **NCERT Solutions For Class 7 Maths**

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### 1. Integers

- 1.1 Introduction
- 1.2 Recall
- 1.3 Properties Of Addition And Subtraction Of Integers
- 1.4 Multiplication Of Integers
- 1.5 Properties Of Multiplication Of Integers
- 1.6 Division Of Integers
- 1.7 Properties Of Division Of Integers

#### 2.Fractions And Decimals

- 2.1 Introduction
- 2.2 How Well Have You Learnt About Fractions?
- 2.3 Multiplication Of Fractions
- 2.4 Division Of Fractions
- 2.5 How Well Have You Learnt About Decimal Numbers
- 2.6 Multiplication Of Decimal Numbers
- 2.7 Division Of Decimal Numbers

### 3. Data Handling

- 3.1 Introduction
- 3.2 Collecting Data
- 3.3 Organisation Of Data
- 3.4 Representative Values
- 3.5 Arithmetic Mean
- 3.6 Mode
- 3.7 Median
- 3.8 Use Of Bar Graphs With A Different Purpose
- 3.9 Chance And Probability

### **4.Simple Equations**

- 4.1 A Mind-Reading Game!
- 4.2 Setting Up Of An Equation.

- 4.3 Review Of What We Know.
- 4.4 What Equation Is?
- 4.5 More Equations.
- 4.6 From Solution To Equation.
- 4.7 Applications Of Simple Equations To Practical Situations.

### 5. Lines And Angles

- 5.1 Introduction.
- 5.2 Related Angles.
- 5.3 Pairs Of Lines.
- 5.4 Checking For Parallel Lines.

## **<u>6. The Triangle And Its Properties</u>**

- 6.1 Introduction.
- 6.2 Medians Of A Triangle.
- 6.3 Altitudes Of A Triangle.
- 6.4 Exterior Angle Of A Triangle And Its Property.
- 6.5 Angle Sum Property Of A Triangle.
- 6.6 Two Special Triangles: Equilateral And Isosceles.
- 6.7 Sum Of The Lengths Of Two Sides Of A Triangle.
- 6.8 Right-Angled Triangles And Pythagoras Property.

## 7. Congruence Of Triangles

- 7.1 Introduction.
- 7.2 Congruence Of Plane Figures.
- 7.3 Congruence Among Line Segments.
- 7.4 Congruence Of Angles.
- 7.5 Congruence Of Triangles.
- 7.6 Criteria For Congruence Of Triangles.
- 7.7 Congruence Among Right-Angled Triangles.

## 8. Comparing Quantities

- 8.1 Introduction.
- 8.2 Equivalent Ratios.
- 8.3 Percentage Another Way Of Comparing Quantities.
- 8.4 Use Of Percentages.
- 8.5 Prices Related To An Item Or Buying And Selling.

8.6 Charge Given On Borrowed Money Or Simple Interest.

## **Chapter 9 Rational Numbers**

- 9.1 Introduction
- 9.2 Need For Rational Numbers.
- 9.3 What Are Rational Numbers?
- 9.4 Positive And Negative Rational Numbers.
- 9.5 Rational Numbers On A Number Line.
- 9.6 Rational Numbers In Standard Form.
- 9.7 Comparison Of Rational Numbers.
- 9.8 Rational Numbers Between Two Rational Number.
- 9.9 Operations On Rational Numbers.

#### 10. Practical Geometry

- 10.1 Introduction
- 10.2 Construction Of A Line Parallel To A Given Line, Through A Point Not On The Line.
- 10.3 Construction Of Triangles.
- 10.4 Constructing A Triangle When The Lengths Of Its Three Sides Are Known (SSS Criterion)
- 10.5 Constructing A Triangle When The Lengths Of Two Sides And The Measure Of The Angle Between Them Are Known. (SAS Criterion)
- 10.6 Constructing A Triangle When The Measures Of Two Of Its Angles And The Length Of The Side Included Between Them Is Given. (ASA Criterion)
- 10.7 Constructing A Right-Angled Triangle When The Length Of One Leg And Its Hypotenuse Are Given (RHS Criterion).

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## **Chapter 11 Perimeter And Area**

- 11.1 Introduction.
- 11.2 Squares And Rectangles.
- 11.3 Area Of A Parallelogram.
- 11.4 Area Of A Triangle.
- 11.5 Circles.
- 11.6 Conversion Of Units.
- 11.7 Applications.

### 12. Algebraic Expressions

- 12.1 Introduction.
- 12.2 How Are Expressions Formed?
- 12.3 Terms Of An Expression.
- 12.4 Like And Unlike Terms.
- 12.5 Monomials, Binomials, Trinomials And Polynomials.
- 12.6 Addition And Subtraction Of Algebraic Expressions.
- 12.7 Finding The Value Of An Expression.
- 12.8 Using Algebraic Expressions Formulas And Rules.

## 13. Exponents And Powers

- 13.1 Introduction.
- 13.2 Exponents.
- 13.3 Laws Of Exponents.
- 13.4 Miscellaneous Examples Using The Laws Of Exponents.
- 13.5 Decimal Number System.
- 13.6 Expressing Large Numbers In The Standard Form.
- 14. Symmetry.

#### 14.1 Introduction

- 14.2 Lines Of Symmetry For Regular Polygons.
- 14.3 Rotational Symmetry.
- 14.4 Line Symmetry And Rotational Symmetry.

## 15. Visualising Solid Shapes

- 15.1 Introduction: Plane Figures And Solid Shapes.
- 15.2 Faces, Edges And Vertices.
- 15.3 Nets For Building 3-D Shapes.
- 15.4 Drawing Solids On A Flat Surface.
- 15.5 Viewing Different Sections Of A Solid.
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