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NCERT Solutions for Class 9 Maths Chapter 3.

NCERT Solutions for Class 9 Maths Chapter 4.

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NCERT Solutions for Class 9 Maths Chapter 12.

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NCERT Solutions for Class 9 Maths Chapter 14.

NCERT Solutions for Class 9 Maths Chapter 15.

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CBSE Class 9 Maths Unit Wise Weightage.

UNIT NO	UNIT Name	Scoring Marks
UNIT I	Number Systems	8
UNIT II	Algebra	17
UNIT III	Coordinate Geometry	4
UNIT IV	Geometry	28
UNIT V	Mensuration	13
UNIT VI	Statistics & Probability	10
Total		80 Marks.

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Class 9 Maths Chapter 1 Number Systems.

This chapter is an extension of the number line you have studied in the previous standards. You will also get know how to place various types of numbers on the number line in this chapter. A total of 6 exercises in this chapter guides you through the representation of terminating or non terminating of the recurring decimals on the number line. Along with the rational numbers, you will also learn where to put the square roots of 2 and 3 on the number line. There are also laws of rational exponents and Integral powers taught in this chapter.

Class 9 Maths Chapter 2 Polynomials.

This chapter guides you through algebraic expressions called polynomial and various terminologies related to it. There is plenty to learn in this chapter about the definition and examples of polynomials, coefficient, degrees, and terms in a polynomial. Different types of polynomials like quadratic polynomials, linear constant, cubic polynomials, factor theorems, factorization theorem are taught in this chapter.

Class 9 Maths Chapter 3 Coordinate Geometry.

A total of 3 exercises in this chapter will help you understand coordinate geometry in detail. Along with there are concepts like concepts of a Cartesian plane, terms, and various terms associated with the coordinate plane are learned in this chapter. You will also learn about plotting a point

in the XY plane and naming process of this point.

Class 9 Maths Chapter 4 Linear Equations in Two Variables.

This chapter will introduce to a new equation, $ax + by + c = 0$ in two variables. The questions in this chapter will be related to proving that a linear number has infinite solutions, using a graph to plot linear equation, and justifying any point on a line. A total of 4 exercises are there for your practice and understanding.

Class 9 Maths Chapter 5 Introduction to Euclid's Geometry.

The chapter begins with the introduction of Indian geometry as it has some base in Euclid's geometry. The Introduction of Euclid's geometry in this chapter helps you with a process of defining geometrical terms and shapes. There are a total of 2 exercises where you will dwell into the relationship between theorems, postulates, and axioms.

Class 9 Maths Chapter 6 Lines and Angles.

This chapter in the NCERT textbook also has 2 exercises in it. There are various theorems on angles and lines in this chapter that can be asked in for proof. The first theorem which will be asked for proof is "If the two lines are intersecting each other, then the vertically opposite angles formed will be equal". Also, the second proof that is asked is, "The sum of all the angles formed in a triangle is 180° ". There are other theorems also given, but these are based on only these two theorems.

Class 9 Maths Chapter 7 Triangles.

The contents in this chapter will help in understanding the congruence of triangles along with the rules of congruence. This chapter also has two theorems in it and a total of 5 exercises for students to practice. These two theorems are given as proof while the other is used in the problems or applications. Besides this, there are many properties of inequalities and triangles in this chapter for students to learn.

Class 9 Maths Chapter 8 Quadrilaterals.

This chapter is very interesting for students to learn and there are only 2 exercises in it. The questions in this chapter are related to the properties related to quadrilateral and their combinations with the triangles.

Class 9 Maths Chapter 9 Areas of Triangles and Parallelogram.

This chapter is important to understand the meaning of the area with this, the areas of the triangle, parallelogram, and their combinations are asked in this chapter along with their proofs. There are also examples of the area which are used as a proof of theorems in this chapter.

Class 9 Maths Chapter 10 Circles.

In this chapter, you will get to learn some interesting topics like equal chords and their distance from the center, the chord of a point and angle subtended by it, angles which are subtended by an arc of a circle, and cyclic quadrilaterals. There are also theorems in this chapter which are helpful to prove questions based on quadrilaterals, triangles, and circles.

Class 9 Maths Chapter 11 Constructions.

This chapter will help you learn two different categories of construction. One of them is the construction of a triangle along with its base, difference or sum of the remaining two sides, and one base angle with base angle and parameters are given. The other is the construction of bisectors for the line segments and measuring angles that include $45/60/90$, etc.

Class 9 Maths Chapter 12 Heron's Formula.

This chapter joins the long list NCERT chapters that also has 2 exercises in it. In this chapter, you will be learning the concepts that are an extension of concepts related to the area of a triangle. Furthermore, you will get to learn about finding the area of triangles, quadrilaterals, and various types of polygons. Along with this, there is also knowledge of formula for the plane figures given in the chapter.

Class 9 Maths Chapter 13 Surface Areas and Volume.

Every one of you has already studied mensuration in previous standards. Thus, you must be aware of surface areas and this chapter is on that. Along with this, this chapter also has a volume of cubes, cylinders, cuboids, cones, hemispheres, and spheres. Also, in this chapter, you will get to know about the conversion of one figure into another, and comparing volumes of two figures.

Class 9 Maths Chapter 14 Statistics.

In this chapter, you will get the knowledge about the descriptive statistics and the collection of data based on different aspects of life. This is useful for interpretation and stating the inferences from the data. This chapter gives the basic knowledge of the collection of data as the data is available in raw form. As you move forward and study 5 exercises you will learn about presenting data in tabular form by keeping them together in regular intervals, polygon, histogram, or bar graph drawing. You will also get to the topics like mean, median, and mode and finding the central tendency with the raw data.

Class 9 Maths Chapter 15 Probability.

Probability in this book is based on the observation approach or finding the frequency. Questions in this chapter are very intuitive as they are based on daily life or day to day situations. For example, incidents like throwing dice, coin tossing, the probability for a deck of cards and simple events. If you are curious this chapter can be very interesting for you to learn and understand.

There may be a few times where you feel you are stuck and not getting the desired solutions. This is where we can you with NCERT solutions for class 9 maths. You can use this article as a reference for all the chapters in the NCERT book.

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It's not about the time limit. Try practicing as much as you can and revise the complete syllabus of Class 9 Maths for the exams to score well.

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Chapter 3 Coordinate Geometry.

Chapter 4 Linear Equations in Two Variables.

Chapter 5 Introduction to Euclid's Geometry.

Chapter 6 Lines and Angles.

Chapter 7 Triangles.

Chapter 8 Quadrilaterals.

Chapter 9 Areas of Parallelograms and Triangles.

Chapter 10 Circles.

Chapter 11 Constructions.

Chapter 12 Heron's Formula.

Chapter 13 Surface Areas and Volumes.

Chapter 14 Statistics.

Chapter 15 Probability.

Chapter 1: Number Systems.

In this chapter, students will learn about the concept of an irrational number, real numbers, and their decimal expansions, they will also learn the techniques of real numbers on the number line, different kind of operations on real numbers, and about the laws of exponents for real numbers. Overall there are 7 exercises, solve the questions and in case of any doubt refer our book. As we provide a step-by-step description of each question for making you perfect in the number system.

Chapter 2: Polynomial.

Polynomial is a type of algebraic expression. In previous classes, you understood factorization of algebraic expression, so apply those concepts and learn some new concepts while solving polynomials. Here students will familiarize themselves with the concept of polynomials in one variable, zeroes of a polynomial, remainder theorem, factorization of polynomials, and algebraic identities. There are 7 exercises in this chapter. Solve them and take our book help in case you are unable to get the desired answer or if you find it difficult to solve any question.

Chapter 3: Coordinate geometry.

In earlier classes, you studied the location of a point on a particular line. And now in this chapter, you will learn how to locate point which is not present on that line, but at some other place. In this chapter students will be introduced to the concept of Cartesian system, plotting a point in the plane if its coordinates are given. Make yourself aware of X and Y axis and plot a point using a graph. There are 5 exercises in this chapter including the summary.

Chapter 4: Linear Equations and Two variables.

In previous classes, you understood linear equations in one variable and now it's the time to add one more variable. In this chapter, students will understand what is a linear equation, solving linear equations, graphical representation of linear equation in two variables, equations of lines parallel to the x-axis, and y-axis. Like other chapters there are 5 exercises including the summary exercise. Attempt all the questions for knowing your practice, and consult our book in case you need any help.

Chapter 5: Introduction To Euclid's Geometry.

Here students will learn about Euclid's definition, axioms, and postulates, equivalent versions' of Euclid's fifth postulate. There is a theorem in this chapter which states that two distinct lines can't have more than one common point. Solve the exercises, know about the postulates of Euclid for grasping the chapter in a better way. And yes for any kind of difficulty refer our book containing solutions of all exercises.

Chapter 6: Lines and Angles.

In chapter 5 students understood that the minimum two points are needed to draw a line, they also became aware of some axioms. Now, this chapter introduces students to the basic terms and definition of line and angles. Students will learn about intersecting and non-intersecting lines, pair of angles, transversal and parallel lines, lines parallel to the same line, and finally the angle sum property of a triangle. And like previous chapters, this chapter also ends up with exercises.

Chapter 7: Triangles.

In your previous classes, you learned about triangles and their properties and in chapter 6 you understood some triangle properties. Students will learn about the congruence of triangles, criteria for congruence of triangles, properties of a triangle, and inequalities in a triangle in this chapter. Congruent triangles are those triangles who are equal in size or you can say a replica of each other. Learn more about congruent triangles and solve the exercises at the end.

Chapter 8: Quadrilaterals.

In previous chapters, students learned about triangles which have three angles. Now add one more angle in the figure and see what comes up. A quadrilateral has 4 angles. Here, students will learn about the angle sum property of quadrilaterals, different type of quadrilaterals, properties of a parallelogram, conditions that make a quadrilateral parallelogram. Finally, students will be introduced to the concept of the mid-point theorem. So learn the new concepts and take our help in case you stuck somewhere.

Chapter 9: Areas of parallelogram and triangles.

In this chapter, students will learn about figures having the same base and between the same parallels, parallelograms on the same base and between the same parallels, triangles on the same base and between the same parallels. Also, learn about trapezium. There are 4 exercises in this chapter. Solve each of them, initially, you may find them difficult, but try to attempt them by yourself and take the guidance of our book in case of any doubt.

Chapter 10: Circles.

Here students will learn what is a circle and its related terms, the angle of a chord at a point, perpendicular from the center to a chord, circle through three points, equal chords and their distance from the center, the angle subtended by the arc of a circle, and cyclic quadrilaterals. There are 2 theorems in this chapter related to chords. Go through these theorems and learn how to prove them. Refer our solved book in case you face any difficulty.

Chapter 11: Construction.

In previous chapters, you came across triangles. But those triangles were not made with precision. As those were for your understanding purpose only. Now in this chapter, students will learn about the basics of construction, and work with some construction on triangles. Know how to measure the angle with protector, how to draw perpendicular and how to use the compass. You may find this chapter interesting if you get the correct knowledge of construction. Solve the exercises at the end.

Chapter 12: Heron's formula.

From previous chapters, you have an understanding of squares, triangles, rectangles, and quadrilaterals. You know how to calculate perimeters and area. Now in this chapter calculate the area with a different formula. Here, students will learn about the area of a triangle as per Heron's formula, application of heron's formula while finding the area of a quadrilateral. Solve the exercise and take a grasp on this new formula.

Chapter 13: Surface Area and Volumes.

Through previous chapters, you became aware of the area and perimeter of figures. Now learn about new shapes and sizes in this chapter and how to calculate their volume and surface area. Here students will learn about calculating the surface area of cuboid, and cube, right circular cylinder, right circular cone, the surface area of a sphere, Volume of a cuboid, the volume of a cylinder. Moreover, students will come to know about the volume of right circular cone, and volume of a sphere.

Chapter 14: Statistics.

In your day-to-day life, you may come across various data in newspaper or magazines. You can also take an example of polling results. All these data, when kept in a meaningful manner is called statistics. Here, in this chapter students will learn about data collection, data presentation, representing data graphically, measurement of central tendency. Solve exercises and learn about the calculation of mean, median and mode. As these three are important from a statistics point of view.

Chapter 15: Probability.

In this chapter, students will become familiar with the concept of probability and its experimental approach. Probability is nothing but the uncertainty of any circumstances. And in mathematics, it is possible to calculate probability. The chapter contains activities which you need to do by yourself. It also contains examples along with the exercises. Understand examples and solve exercises for achieving mastery in probability.

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