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## Maths formulas for class 10 state board pdf download

Get the complete list of mathematics formulas for class 10 in just a single click. Do you fear Maths? Well, 80% of students do. Mathematics is usually considered as a difficult subject because we can't relate to the formulas of mathematics in real life. So, we don't find enough motivation for our environment to study Maths. Some people associate the math as a boring subject. But is it so? If you will ask any math's topper you are going to find that they love the subject and they consider Math's as the most interesting subject. Irony may be that for some people it is the most interesting subject and for others, it is the most boring subject. This is not a matter of surprise because the students that find it difficult to understand the subject and learn the basic formulas are due to the fact that they have a shaky foundation in mathematics. NCERT Solutions for Class 10 Maths PDF If you are a student of class 10th and is striving hard to cope with the subject of Math's, learn all the formulas and understand the meaning of each one. Then this is the right platform for you. Mathematics is included in one of the main subjects because of a reason. Mathematics has a various importance which makes our life easier, some of them are - Mathematics enhance our qualities like reasoning power, creativity, problem-solving ability, etc. It is a much-needed subject in our day to day life, exists in the planning of an architect for the infrastructure of the building, basic like solving problems related to money etc. Even living things other than human beings also use Math's And many more. I hope this created a clear picture of how much mathematics is important in our daily life. For making it an easier subject emphasis should be laid on the foundation of making the concept clear from the primary classes. 10th is one of the most important class and is the main building block for higher education of a child. We believe every child is a genius and the right way of education, everyone can excel. Class 10th Math's formulas are a very important part of their course. Students need a firm grip on the formulae's and clear concepts for being a good scorer. Learning formulas is not enough; being able to apply the correct formula is what is more important. Importance's of formulae's are - Formulas are needed to solve real-life problems Class 10th formulae's are the pillar of higher education and are needed to crack any entrance exam. An advanced form of Math's requires basic formulae which are included in the syllabus of class 10th. Some of the formulae are very important for scoring good marks in board exams like algebraic equations, trigonometric formulas, menstruation, probability etc. without learning the correct formula you can't solve questions. Hence, formulae's constitute a very important part of your mathematics syllabus. Some tips for easy learning of your formulas are - Remembering formulas is easy if you know the story behind it that is how it came into existence. There are tips and tricks to learn every formula which makes it easier to remember them and focus on them. Don't learn a set of formulas at one time. Memorize one formula at a time for long-term memory. Practice is the key to everything. Practice the formulae's as much as you can. Use different techniques like interesting ways through video lectures etc. to memorize them thoroughly. NCERTBOOK.GURU - The complete solution for you is the leading and one of the best online education platforms. We provide the best online learning platform for scholars at free of cost with wide range of study solutions including all sample papers, previous years question papers according to the latest pattern of CBSE, ICSE and other respected boards. All the study material are available in PDF form with just a single click without any hassle or unnecessary redirecting links. Go now and avail all study material under one platform free of cost. Contact us, in case the links don't work in this article on CBSE Class 10 Maths Formulas PDF. We will get back to you as soon as possible!! Maths Formulas for Class 8: It is tough for a Class 8 student to grasp the increase in difficulty level from his previous courses. In addition, with a topic like Mathematics, you must remain alert at all times. The subject is very important in both your schooling and your personal life. To get a high level of knowledge, you must first master your Maths Formulas for Class 8 before moving on to apply them to your questions. One could question where to obtain the correct Maths formulae for Class 8 for a certain collection of problems. This is why we are presenting you with this post. We will provide you with all Maths formulae for Class 8 on one page so that you do not encounter any difficulties. CBSE Class 8 Maths formulae are accessible for download chapter by chapter on Embibe and have been created by our best Mathematics tutors. Download the essential arithmetic formulas and equations to help you solve problems quickly and earn more points in your Class 8 CBSE exams. Embibe is a portal that provides students with free (CBSE) NCERT Solutions and other study tools. NCERT Maths Formulas for Class 8 Many students argue about the fact that Maths formulas are hard to grasp. However, if you understand the meaning of the formulas, practice them regularly, and solve a sufficient number of questions, all the formulas will be at your fingertips. CBSE Class 8 Maths has the following chapters: Chapter-1: Rational NumbersChapter-2: Linear Equation in One VariableChapter-3: Understanding QuadrilateralsChapter-4: Practical GeometryChapter-5: Data HandlingChapter-6: Square and Square RootsChapter-7: Cube and Cube RootsChapter-8: Comparing QuantitiesChapter-9: Algebraic Expressions and IdentitiesChapter-10: MensurationChapter-11: Exponents and PowerChapter-12: Direct and Inverse ProportionChapter-13: FactorizationChapter-14: Introduction to GraphsChapter-15: Playing with Numbers Let's take a look at some of the important chapters-wise lists of Maths formulas for Class 8. Learn 8th CBSE Exam Concepts Maths Class 8 Formulas: Rational Numbers Any number that can be written in the form of  $\frac{p}{q}$  where  $q \neq 0$  are rational numbers. It possesses the properties of: Additive Identity:  $(\frac{a}{b} + 0) = (\frac{a}{b})$ Multiplicative Identity:  $(\frac{a}{b}) \times 1 = (\frac{a}{b})$ Multiplicative Inverse:  $(\frac{a}{b}) \times (\frac{b}{a}) = 1$ Closure Property - Addition: For any two rational numbers a and b, a + b is also a rational number.Closure Property - Subtraction: For any two rational numbers a and b, a - b is also a rational number.Closure Property - Multiplication: For any two rational numbers a and b, a x b is also a rational number.Closure Property - Division: Rational numbers are not closed under division.Commutative Property - Addition: For any rational numbers a and b, a + b = b + a.Commutative Property - Subtraction: For any rational numbers a and b, a - b  $\neq$  b - a.Commutative Property - Multiplication: For any rational numbers a and b, (a x b) = (b x a).Commutative Property - Division: For any rational numbers a and b,  $(\frac{a}{b}) \neq (\frac{b}{a})$ .Associative Property - Addition: For any rational numbers a, b, and c, (a + b) + c = a + (b + c).Associative Property - Subtraction: For any rational numbers a, b, and c, (a - b) - c  $\neq$  a - (b - c).Associative Property - Multiplication: For any rational number a, b, and c, (a x b) x c = a x (b x c).Associative Property - Division: For any rational numbers a, b, and c,  $(\frac{a}{b}) \div c \neq \frac{a}{(b \div c)}$ .Distributive Property: For any three rational numbers a, b, and c,  $a \times (b + c) = (a \times b) + (a \times c)$ . Number Formation A two-digit number 'ab' can be written in the form:  $ab = 10a + b$ A three-digit number 'abc' can be written as:  $abc = 100a + 10b + c$ A four-digit number 'abcd' can be formed:  $abcd = 1000a + 100b + 10c + d$  Download also, Maths Formulas For Class 8: Laws of Exponents  $a^0 = 1$   $a^{-m} = \frac{1}{a^m}$  ( $a \neq 0$ )  $a^m \times a^n = a^{m+n}$   $\frac{a^m}{a^n} = a^{m-n}$   $a^m \times a^n = (a \times a)^{m \times n}$   $(a^m)^n = a^{m \times n}$   $\frac{a^m}{a^n} = (\frac{a}{a})^{\frac{m}{n}}$   $(\frac{a}{b})^m = (\frac{a^m}{b^m})$   $(\frac{a}{b})^{\frac{m}{n}} = (\frac{a^m}{b^m})^{\frac{1}{n}}$   $n = 1$  for infinite values of n. Maths Formulas For Class 8: Algebraic Identity Algebraic Identities comprises of several equality equations which consist of different variables. a) Linear Equations in One Variable: A linear equation in one variable has the maximum one variable of order 1. It is depicted in the form of  $ax + b = 0$ , where x is the variable. b) Linear Equations in Two Variables: A linear equation in two variables has the maximum of two variables of order 2. It is depicted in the form of  $ax^2 + bx + c = 0$ .  $(a + b)^2 = a^2 + 2ab + b^2$   $(a - b)^2 = a^2 - 2ab + b^2$   $(a + b)(a - b) = a^2 - b^2$   $(x + a)(x + b) = x^2 + (a + b)x + ab$   $(x - a)(x - b) = x^2 + (a - b)x - ab$   $(x + a)(x - b) = x^2 + (a - b)x - ab$   $(x - a)(x + b) = x^2 - (a + b)x + ab$   $(a + b)^3 = a^3 + b^3 + 3ab(a + b)$   $(a - b)^3 = a^3 - b^3 - 3ab(a - b)$  Maths Formulas for Class 8: Square & Square Roots If a natural number, m = n<sup>2</sup> and n is a natural number, then n is said to be a square number. Every square number surely ends with 0, 1, 4, 5 6 and 9 at its units place. A square number's square root is the inverse operation of the square. Formula of Maths Class 8: Cube & Cube Roots Numbers, when obtained while multiplied by itself three times, is known as cube numbers. If every number in the prime factorization appears three times, then the number is a perfect cube. The symbol of the cube is  $\sqrt[3]{\quad}$ . Cube and Cube root's formula:  $\sqrt[3]{27} = 3$  and  $3^3 = 27$ . Class 8th Maths Formulas: Comparing Quantities Discounts are the reduction value prevailed on the Marked Price (MP). Discount = Marked Price - Sale Price Discount = Discount % of the Marked Price Overhead expenses are the additional expenses made after purchasing an item. These are included in the Cost Price (CP) of that particular item. CP = Buying Price + Overhead Expenses GST (Goods and Service Tax) is calculated on the supply of the goods. Tax = Tax % of the Bill Amount Compound Interest (CI) is the interest which is compounded on the basis of the previous year's amount. Formula of Amount (Compounded Annually):  $A = P \left(1 + \frac{R}{100}\right)^t$  P = Principal, r = Rate of Interest, and t = Time Period Formula of Amount (Compounded Half Yearly):  $A = P \left(1 + \frac{R}{200}\right)^{2t}$  R/2 = Half-yearly Rate, 2t = Number of Half-Years Maths Formulas for Class 8: Data Handling & Probability Any useful information that can be utilized for some specific use is known as Data. These data can be represented either graphically (Pictograph/Bar Graph/Pie Charts) or symmetrically (Tabular form). Find the important Class 8 Maths formulas for Data Handling and Probability. A class interval is the specific range of numbers such as 10-20, 20-30, 30-40, and so forth. For a Class Interval of 10-20, Lower Class Limit = 10 and Upper-Class Limit = 20 Frequency is the number of times a particular value occurs. Probability = Number of Favourable Outcomes / Total Number of Outcomes Math Formula Class 8: Geometry Here, we will define the geometrical formulas consistently used in Mathematics Class 8. We will use the following abbreviations for convenience: 1. LSA - Lateral/Curved Surface Area 2. TSA - Total Surface Area Name of the Solid Figure Formulas Cuboid: LSA:  $2h(l + b)$  TSA:  $2(lb + bh + hl)$  Volume:  $l \times b \times h$  = length, b = breadth, h = height Cube: LSA:  $4a^2$  TSA:  $6a^2$  Volume:  $a^3$  a = sides of a cube Right Pyramid: LSA:  $\frac{1}{2} \times p \times l$  TSA: LSA + Area of the base Volume:  $\frac{1}{3} \times$  Area of the base  $\times$  h p = perimeter of the base, l = slant height, h = height Right Circular Cone: LSA:  $\pi r l$  TSA:  $\pi r \times (r + l)$  Volume:  $\frac{1}{3} \times (\pi r^2) h$  = radius, l = slant height, h = height Right Prism: LSA:  $p \times h$  TSA: LSA +  $2B$  Volume:  $B \times hp$  = perimeter of the base, B = area of base, h = height Sphere: LSA:  $4 \times \pi \times r^2$  TSA:  $4 \times \pi \times r^2$  Volume:  $\frac{4}{3} \times (\pi r^3)$  r = radius Hemisphere: LSA:  $2 \times \pi \times r^2$  TSA:  $3 \times \pi \times r^2$  Volume:  $\frac{2}{3} \times (\pi r^3)$  r = radius CHECK THE DETAILED MATHS SYLLABUS FOR CLASS 8 List of Important Class 8 Math Formulas Consistent practice is essential for success in math. Students are encouraged to solve as many problems as they can, since this will expose them to a variety of formulas. This is a fantastic technique to recall formulas without having to mumble them down. Here is a summarized list of Class 8 math formulas that can be used. Additive inverse of rational number:  $\frac{a}{b} + (-\frac{a}{b}) = 0$  Multiplicative inverse of  $\frac{a}{b} = \frac{b}{a}$ , if  $\frac{a}{b} \times \frac{b}{a} = 1$  Distributivity  $a(b - c) = ab - ac$  Probability of the occurrence of an event = Number of outcomes that comprise an event / Total number of outcomes Compound Interest formula = Amount - Principal, Amount in case the interest is to be calculated annually = Principal  $\left(1 + \frac{Rate}{100}\right)^n$ , where 'n' is the time period.  $(a - b)^2 = a^2 - 2ab + b^2$   $(a + b)(a - b) = a^2 - b^2$  Euler's Formula: For any polyhedron, Number of faces + Number of vertices - Number of edges = 2 Volume of a Cone =  $\frac{1}{3} \pi r^2 h$  Volume of a Sphere =  $\frac{4}{3} \pi r^3$  Practice 8th CBSE Exam Questions FAQs on CBSE Class 8 Maths Formulas Here are some important frequently asked questions related to Class 8 Maths formulas. Q: How to memorize Class 8 Maths formulas? A: Just refer to the formula sheet as you solve questions. Eventually, you will memorize them and master their application. Q: Is NCERT enough for the Class 8 Maths exam? A: Yes, for Class 8, the NCERT Maths textbook is enough. Q: Which book should I prefer for learning Class 8 maths formulas? A: We advise you to go for NCERT books if you want to know all the important Class 8 Maths formulas. Q: Is there any website that offers free Class 8 practice questions? A: Embibe provides free Class 8 practice questions to learn and score well in your examinations. Q: How to make the best use of these maths formulas? A: These Class 8 Maths formulas will help you when you get stuck in some questions while practising the subject. The formulas and properties will help you in quick revision. This way you can prepare well and score better. Q: How will these Class 8 maths formulas help me? A: These Maths formulas are taken from the standard Class 8 NCERT book. Therefore, it'll prove to be useful for you no matter what education board you are studying in. These formulas are present on a page so that you don't have to go back and forth. Hence, this will come in handy at the time of revision. These are some of the important maths formulas for Class 8. These will prove to be helpful in making your journey a rather easy one. Solve the free Class 8 Maths Mock Test and refer to these formulas when necessary. With passing time, you will improve. If you have any queries, feel free to comment them down and we will get back to you. Embibe wishes you all the best!



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