Maths equations formulas pdf

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The formula is a fact or a rule written with mathematical symbols. It usually connects two or more quantities with an equal to sign. When you know the value of one quantity, you can find the value of the other using the formula. Examples of formula: Perimeter of rectangle = 2(length + width) If the length and width of a rectangle are 'a' units and 'b' units respectively, the perimeter of its perimeter is: P = 2 (a + b) Area of rectangle = length × width If the length and width of a rectangle are 'a' units and 'b' units respectively, the formula of its area is: P = a × b The perimeter of square = 4 × side length If the length of the side of a square is 'a' units, then its perimeter P is the sum of all its sides. P = a + a + a + a P = 4a Area of square = Side length × side length If the side length of the square is a units; then its area is: Area = a × a = a² Volume of cuboid = length × width × height Profit = Selling price – cost price Loss = Cost price – selling price Non examples: 2x – 3 = 6 x + y = 10 3x – 8x + 9x = 17 These are equations and not formula. Fun Facts – The first formula was invented between 1800-and 1600 BC. You find formulas not just in Mathematics but in Science as well. In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. Square ˙A=l˄2˙˙l˙ : length of side Rectangle ˙A=wxh˙˙w˙ : width ˙h˙ : height Triangle ˙A=(bxxh)/2˙˙b˙ : base ˙h˙ : height Rhombus ˙A=(Dxxd)/2˙˙D˙ : large diagonal ˙d˙ : small diagonal Trapezoid ˙A=(B+b)/2xxh˙˙B˙ : large side ˙b˙ : small side ˙h˙ : height Regular polygon ˙A=P/2xxa˙˙P˙ : perimeter ˙a˙ : apothem Circle ˙A=pir˄2˙˙P=2pir˙˙r˙ : radius ˙P˙ : perimeter Cone(lateral surface) ˙A=pirxxs˙˙r˙ : radius ˙s˙ : slant height Sphere(surface area) ˙A=4pir˄2˙˙r˙: radius Find here a comprehensive list of basic math formulas commonly used when doing basic math computation Average formula: Let a1,a2,a3,......,an be a set of numbers, average = (a1 + a2 + a3,+......+ an)/n Percent: Percent to fraction: x% = x/100 Percentage formula: Rate/100 = Percentage/base Rate: The percent. Base: The amount you are taking the percent of. Percentage: The answer obtained by multiplying the base by the rate Fractions formulas: Converting an improper fraction to a mixed number: Formula for a proportion: In a proportion, the product of the extremes (ad) equal the product of the means(bc), Thus, ad = bc Consumer math formulas: Discount = list price × discount rate Sale price = list price − discount Discount rate = discount ÷ list price Sales tax = price of item × tax rate Interest = principal × rate of interest × time Tips = cost of meals × tip rate Commission = cost of service × commission rate Geometry Perimeter: Perimeter of a square: s + s + s + s s:length of one side Perimeter of a rectangle: l + w + l + w l: length w: width Perimeter of a triangle: a + b + c a, b, and c: lengths of the 3 sides Area: Area of a square: s × s s: length of one side Area of a rectangle: l × w l: length w: width Area of a triangle: (b × h)/2 b: length of height Area of a trapezoid: (b1 + b2) × h/2 b1 and b2: parallel sides of the bases h: length of height volume: Volume of a cube: s × s × s s: length of one side Volume of a box: l × w × h l: length w: width h: height Volume of a sphere: (4/3) × pi × r3 pi: 3.14 r: radius of sphere Volume of a triangular prism: area of triangle × Height = (1/2 base × height) × Height base: length of the base of the triangle height: height of the triangle Height: height of the triangular prism Volume of a cylinder:pi × r2 × Height pi: 3.14 r: radius of the circle of the base Height: height of the cylinder Have any questions about the basic math formulas? Send me an email here and ask me any questions you want about these basic math formulas Jul 28, 22 06:06 AMWhat are the 3 main types of waves? Learn them quickly here with crystal clear explanations.Read More Enjoy this page? Please pay it forward. Here's how... Would you prefer to share this page with others by linking to it?Click on the HTML link code below.Copy and paste it, adding a note of your own, into your blog, a Web page, forums, a blog comment, your Facebook account, or anywhere that someone would find this page valuable. An equation says that two things are equal. It will have an equals sign "=" like this: That equations says: what is on the left (x + 2) is equal to what is on the right (6) So an equation is like a statement "this equals that" (Note: this equation has the solution x=4, read how to solve equations. What is a Formula? A formula is a fact or rule that uses mathematical symbols. It will usually have: an equals sign (=) two or more variables (x, y, etc) that stand in for values we don't know yet It shows us how things are related to each other. V = lwh V stands for volume, l for length, w for width, and h for height. When l=10, w=4, and h=5, then: V = 10 × 4 × 5 = 200 These are all equations, but only some are formulas: x = 2y - 7 Formula (relating x and y) a2 + b2 = c2 Formula (relating a, b and c) x/2 + 7 = 0 Not a Formula (just an equation) Without the Equals Sometimes a formula is written without the "=": But in a way the "=" is still there, because we can write V = lwh if we want to. Subject of a Formula The "subject" of a formula is the single variable (usually on the left of the "=") that everything else is equal to. s = ut + ½ at2 "s" is the subject of the formula Changing the Subject A very powerful thing that Algebra can do is to "rearrange" a formula so that another variable is the subject. Start with:V = lwh divide both sides by l:V/(hl) = w divide both sides by l:V/(hl) = w swap sides:w = V/(hl) So if we want a box with a volume of 12, a length of 2, and a height of 2, we can calculate its width: w = V/(hl) = 12 / (2 × 2) = 12 / 4 = 3 Copyright © 2017 MathsIsFun.com Algebra Formulas form the foundation of numerous topics of mathematics. Topics like equations, quadratic equations, polynomials, coordinate geometry, calculus, trigonometry, and probability, extensively depend on algebra formulas for understanding and for solving complex problems. The algebra formulas are helpful to perform complex calculations in the least time and with fewer steps. The algebraic expression formulas are used to simplify the algebraic expressions. Before learning these formulas let us recall what are variables, constants, terms, and algebraic expressions. A variable is a quantity whose value varies and is represented by an alphabet usually. A constant is a quantity whose value is fixed. A term is either a variable or a constant or a combination (product or quotient) of variables and constants. Based on the complexity of the math topics, the algebraic formulas have also been transformed. Topics like logarithms, indices, exponents, progressions, permutations, and combinations have their own set of algebraic formulas. Here, we shall look into the list of algebraic formulas used across the different math topics. Algebra Formulas - Identities In algebra formulas, an identity is an equation that is always true regardless of the values assigned to the variables. Algebraic Identity means that the left-hand side of the equation is identical to the right-hand side of the equation, and for all values of the variables. Algebraic identities find applications in solving the values of unknown variables. Here are some most commonly used algebraic identities: Algebraic Identities Let us look at the algebraic identity: (a + b)2 = a2 + 2ab + b2, and try to understand this identity in algebra and also in geometry. As proof of this formula, let us try to multiply algebraically the expression and try to find the formula. (a + b)2 = a2 + 2ab + b2 In the same way, by adding the squares and rectangles, we can prove the other algebraic identities as well. What are Algebra Formulas? An algebraic formula is an equation or a rule written using mathematical and algebraic symbols and terms. It is an equation that involves algebraic expressions on both sides. The algebraic formula is a short quick formula to solve complex algebraic calculations. These algebraic formulas can be derived for each maths topic, usually having unknown variable x, and some of the common algebraic formulas can be applied to each of the maths topics. Example: (a+b)2 =a2 + 2ab + b2 is an algebraic formula and here, (a+b)2 is an algebraic expression a2 + 2ab + b2 is a simplified form of an algebraic expression Let us see the algebraic formulas classwise/difficulty level-wise in the upcoming sections. Algebra Formulas for Class 8 The algebra formulas for three variables a, b, and c and for a maximum degree of 3 can be easily derived by multiplying the expression by itself, based on the exponent value of the algebraic expression. The below formulas are helpful to perform complex calculations in the least time and with fewer steps. (a + b)2 = a2 + 2ab + b2 (a - b)2 = a2 - 2ab + b2 (a + b)(a - b) = a2 - b2 (a + b + c)2 = a2 + b2 + c2 + 2ab + 2bc + 2ca Some of the common laws of exponents with the same bases having different powers, and different bases having the same power, are useful to solve complex exponential terms. The higher exponential values can be easily solved without any expansion of the exponential terms. These exponential laws are further useful to derive some of the logarithmic laws. am. an = am + n am/an = am - n (am)n = amn (ab)m = am bm a0 = 1 a-m = 1/am Algebra Formulas for Class 9 Logarithms are useful for the computation of highly complex multiplication and division calculations. The normal exponential form of 25 = 32 can be transformed to a logarithmic form as log2 32 = 5. Further, the multiplication and division between two mathematic expressions can be easily transformed into addition and subtraction, after converting them to logarithmic form. The below properties of logarithms formulas are applicable in logarithmic calculations. The important log algebraic formulas that we use most commonly are: loga (xy) = loga x + loga y loga (x/y) = loga x - loga y loga xm = m loga x loga a = 1 loga 1 = 0 Algebra Formulas for Class 10 An important algebra formula introduced in class 10 is the "quadratic formula". The general form of the quadratic equation is ax2 + bx + c = 0, and there are two methods of solving this quadratic equation. The first method is to solve the quadratic equation by the algebraic method, and the second method is to solve through the use of the quadratic formula. The below formula is helpful to quickly find the values of the variable x with the least number of steps. In the above expression, the value b2 - 4ac is called the determinant and is useful to find the nature of the roots of the given equation. Based on the value of the determinant, the three types of roots are given below. If b2 - 4ac > 0, then the quadratic equation has two distinct real roots. If b2 - 4ac = 0, then the quadratic equation has two equal real roots. If b2 - 4ac < 0, then the quadratic equation has two imaginary roots. Apart from this, we have a few other formulas related to progressions. Progressions include some of the basic sequences such as arithmetic sequence and geometric sequence. The arithmetic sequence is obtained by adding a constant value to the successive terms of the series. The terms of the arithmetic sequence is a, a + d, a + 2d, a + 3d, a + 4d, ... a + (n - 1)d. The geometric sequence is obtained by multiplying a constant value to the successive terms of the series. The terms of the geometric sequence are a, ar, ar2, ar3, ar4, ...arn-1. The below formulas are helpful to find the nth term and the sum of the terms of the arithmetic, and geometric sequence. Arithmetic Sequence Formulas: For any arithmetic sequence a, a + d, a + 2d, ... nth term, an = a + (n - 1) d Sum of the first n terms, Sn = n/2 [2a + (n - 1) d] Geometric Sequence Formulas: For any geometric sequence a, ar, ar2, ... nth term, an = a rn - 1 Sum of the first n terms, Sn = a (1 - rn) / (1 - r) Sum of infinite terms, S = a / (1 - r) Algebra Formulas for Class 11 The important topics of Class 11 which have extensive use of algebraic formulas are permutations and combinations. Permutations help in finding the different arrangements of r things from the n available things, and combinations help in finding the different groups of r things from the available n things. The following formulas help in finding the permutations and combination values. Apart from the permutations and combinations, there is another important topic of "Binomial Theorem" as well which is used to evaluate the large exponents of algebraic expressions with two terms. Here the coefficients of the binomial terms are calculated from the formula of combinations. The below expression provides the complete formula for binomial expansion, and it can be termed the algebraic expression of the binomial theorem. Using this binomial expansion formula, we can simplify complex expansions like (x + 2y)7, (3x - y)11, etc. Algebra Formulas for Class 12 The vector algebra formulas that are involved in class 12 are as follows. For any three vectors, a, b and c: Algebra Formulas - Function An algebraic function is of the form y=f(x). Here, x is the input and y is the output of this function. Here, each input corresponds to exactly one output. But multiple inputs may correspond to a single output. For example: f(x) = x2 is an algebraic function. Here, when x = 2, f(2) = 22 =4. Here, x = 2 is the input and f(2) = 4 is the output of the function. The set of all inputs of a function is known as domain and the set of all the outputs is known as the range. To know more about domain and range, click here. Algebra Formulas - Fractions The fractions in algebra are known as rational expressions. We can perform numerous arithmetic operations such as addition, subtraction, multiplication, and the dividing of fractions in algebra just the same way we do with fractions involving numbers. Further, it only has the unknown variables and involved the same rules of working across fractions. The below four expressions are useful for working with algebraic fractions. Challenging Questions on Algebra Formulas: Now having understood the concepts of algebraic expression, check out the below three questions to better practice the learned concept. ►Related Articles: Algebraic Formula Calculator Algebra Calculator Math Formulas Example 1: Using algebra formulas, find (2x-3y)2. Solution: Here, we use the identity (a-b)2 = a2 - 2ab + b2 to expand this. Here, a= 2x and b=3y. Then we get: (2x-3y)2 = (2x)2 -2(2x)(3y)+(3y)2 = 4x2 -12xy + 9y2. Therefore, (2x - 3y)2 = 4x2 -12xy + 9y2. Answer: 4x2 -12xy + 9y2 Example 2: Using algebra formulas (identities), evaluate 297 × 303. Solution: The above product can be written as (300-3) × (300+3). We will find this product using the formula: (a-b)(a+b)=a2- b2 Here a=300 and b=3. Then we get: (300-3) × (300+3) =3002 - 32 = 90000-9 = 89991. Therefore, 297 × 303 = 89991. Answer: 89991 Example 3: Find the roots of the quadratic equation x2+5x+6=0 using algebra formulas for quadratic equations. Solution: The given equation is x2 + 5x + 6 = 0. Comparing this with ax2+bx+c=0, we get: a=1; b=5; c=6. Substituting these values in the quadratic formula: x = [−b ± √(b2 − 4ac)] / 2(1) = [−5 ± √(52 − 4(1)(6))] / 2 = [−5 ± √(25 − 4(1)(6))] / 2 = [−5 ± √(25 − 24)] / 2 = [−5 ± √1] / 2 = (-5 + 1) / 2 (or) (-5 - 1) / 2 = -4/2 (or) -6/2 = -2 (or) -3 Answer: Therefore x = -2, and -3. View More > go to slidego to slide Have questions on basic mathematical concepts? Become a problem-solving champ using logic, not rules. Learn the why behind math with our certified experts Book a Free Trial Class FAQs on Algebra Formulas Here are some most commonly used formulas of algebra: a2 - b2 = (a - b)(a + b) (a + b)2 = a2 + 2ab + b2 (a − b)2 = a2 − 2ab + b2 (a + b + c)2 = a2 + b2 + c2 + 2ab + 2bc + 2ca (a + b)3 = a3 + 3a2b + 3ab2 + b3 (a - b)3 = a3 - 3a2b - 3ab2 - b3 a3 - b3 = (a - b)(a2 + ab + b2) Further, there are algebraic formulas for other topics of maths such as exponents, logarithms, permutations, sequences, and vector algebra. How to Solve Algebra Formulas? The solving of algebra equations is aimed at equalizing the left-hand side of the expression with the right-hand side of the expression. Further, the terms can be transferred from the left to the right side of the expression, based on the formulas of algebra. How do I Learn Algebra Formulas? Algebra formulas can be easily memorized by visualizing the formulas as squares or rectangles. Further, the understanding of the factorized forms of the formulas helps to easily learn and remember the algebraic formulas. What Is The Formula For a^2 - b^2 in Algebra Formulas? The formula for a2- b2 is (a+b)(a-b)= a2- b2. It is called the difference of squares formula. What is the Basis Of Algebra Formulas? The basis of algebra formulas is that the resultant numeric value of the expressions on either side of the equals to sign is equal. Further, algebraically the terms are modified on either side to match up with the algebraic formulas. What are the Algebra Formulas for Triangular Numbers? The algebra formula for triangular numbers is H2 = B2 + A2 and it helps to relate the length of the sides of the triangle. It is applicable for a right triangle and has been derived from the Pythagoras theorem. The alphabets H represents the hypotenuse, B represents the base of the right triangle, and A represents the altitude of the triangle. Applying this same formula as example of triangular numbers is (6, 8, 10). What are Algebra Expressions? For each of the algebra formulas, the equations with variables, powers, and arithmetic operations, and on either side of the equals to sign are called algebraic expressions/variable expressions. In the algebraic formula (a+b)(a-b)= a2- b2, the terms on either side of the equals to sign are called algebraic expressions. What Are Algebraic Expressions Formulas? The algebraic expression formulas are formulas that are used to simplify the algebraic expressions. Some important algebraic expressions formulas used for expansion are: (x + y)2 = x2 + 2xy + y2 (x - y)2 = x2 - 2xy + y2 x2 - y2 = (x + y) (x - y) (x + y)3 = x3 + y3 + 3xy (x + y) (x - y)3 = x3 - y3 - 3xy (x - y) (x + y + z)2 = x2 + y2 + z2 + 2xy + 2yz + 2zx Some of the algebraic formulas used for factorization are: x2 - y2 = (x + y) (x - y) (x2 - xy + y2) x3 - y3 = (x - y) (x2 + xy + y2) What Are the Applications of Algebraic Expressions Formulas? The algebraic expression formulas are used to simplify complex algebraic expressions such as (3x + 4y)2, (a - 3b + 2c)2, etc. Some of these formulas are also used to factorize the polynomials. How To Derive the Algebraic Expressions Formula (x + y)3 = x3 + y3 + 3xy (x + y)? We can derive this formula just by multiplying polynomials. Let us start with the left-hand side of this formula and reach the right-hand side at the end. (x + y)3 = (x + y)2 (x + y) = (x2 + 2xy + y2) (x + y) = x3 + 2x2y + xy2 + x2y + 2xy2 + y3 = x3 + y3 + 3x2y + 3xy2 (or) = x3 + y3 + 3xy (x + y) How to Use Algebraic Expressions Formulas While Solving Problems? We have multiple algebraic expressions formulas and some of them have to be used according to the need while solving the problems. For example, to factorize the expression, 8x3 + 27, we apply the a3 + b3 formula as follows. a3 + b3 = (a + b) (a2 - ab + b2) Substitute a = 2x and b = 3 on both sides, (2x)3 + 33 = (2x + 3) ((2x)2 - (2x)(3) + 32) 8x3 + 27 = (2x + 3) (4x2 - 6x + 9).

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