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Algebra maths worksheets year 8

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For information about these resources and index for the entire collection please visit Keywords: Algebra, Formulas, Formula, Replace, Rating, Positive, Negative, Object Change, Linear, Nonlinear, Equation, Solution, Laws. Read more Free level of class 8 algebra issues with solutions are presented. These include issues for resolving equations, simplifying expressions, including phrases with factons. NOTE: In what follows, mixed numbers are indexed in the form a/b/c. For example, 2 1/3 means mixed number 2 + 1/3. A) -2x + 5 + 10x - 9B) 3(x + 7) + 2(-x + 4) + 5x Enter the expressions. A) (2x - 6) / 2B) (-x - 2) / (x + 2)C) (5x - 5) / 10 Saturation for x the following equations. A) -x = 6B) 2x - 8 = -x + 4C) 2x + 1/2 = 2/3D) x/3 + 2 = 5E) -5/x = 2 Evaluate for given x and y. A) x^2 - y^2 values, for x = -4 and y = 5B) |4x - 2y| |x = -2 and y = 3C) 3x^2 - 4y^4, for x = -1 and y = -2 Solve the following inequalities. A) x + 6 < 8B) x + 1 < 8C) 2(x - 2) < 12 What is the reciprocal of each of the following numbers? A) -1B) 0C) 3/4D) 2 5/7E) 0.02 Evaluate the following expressions including mixed numbers. A) 3 3/4 + 6 1/7B) (1 3/5) x (3 1/3) - 2 1/2C) (5 2/3) + (4 1/5)D) (3 4/7 - 1 1/2) + (2 3/8 + 2 1/4) Rate the exponential expressions of following. A) -4B) (-2)^3C) (-2)^4D) 10000E) 5661 Convert to fractions and write in the simplest form. A) 0.02B) 12% C) 0.5% D) 1.12 Convert to decimal. A) 1/5B) 120% C) 0.2% D) 4 8/5 Censuring rate. A) 3/10B) 1.4C) 123.45D) 2 4/5 Which of these numbers is divided by 3? A) 156312B) 176314 Which of these numbers is divided by 4? A) 3432B) 1257 Which of these numbers is divided by 6? A) 1233B) 3432 Which of these numbers is divided by 9? A) 2538B) 1451 Evaluate 8x + 7 in a situation that x = 3 = 10. Solutions and answers to the above Questions A) -2x + 5 + 10x - 9 : give = (10x - 2x) + (5 - 9) : to collect similar terms = 8x - 4 : group B) 3(x + 7) + 2(-x + 4) + 5x : expand = (3x - 2x + 5x) + (21 + 8) : assemble similar terms = 6x + 29 : group A) (2x - 6) / 2 : given = 2(x - 3) / 2 : coefficient 2 in the numerator = x - 3 : numerator and denominator of 2 for simplification B) (x - 2) / (x + 2) : given = -1(x + 2) / (x + 2) : factor -1 in numerator = -1 : numerator and day or with x + 2 for simplification C) (5x - 5) / 10 : given = 5(x - 1) / 10 : factor 5 in the numerator = (x - 1) / 2 : numerator and denominator of 5 for simplification A) -x = 6 : given x = -6 : multiplying the two sides of the equation by -1 B) 2x - 8 = -x + 4 : 2x - 8 + 8 = -x + 4 : 2x - 8 + 8 = -x + 4 : adding +8 to both sides of the equation = -x + 12 : group of similar terms 2x + x = -x + 12 + x : adding +x to both sides 3x = 12 : group similar to terms = 4 : multiply both sides with 1/3 C) 2x + 1/2 = 2/3 : given 2x + 1/2 - 1/2 = 2/3 - 1/2 : subtracts 1/2 on both sides 2x = 1/6 : group of similar words = 1/12 : multiplying both sides by 1/2 D) x/3 + 2 = 5 : given x/3 + 2 - 2 = 5 - 2 : subtracts 2 on both sides x/3 = 3 : group similar to 9 : multiplying both sides by 1/2 E) -5/x = 2 : given -5 = 2x : multiply the two sides by x and simplify -5/2 = x : multiply the two sides by 1/2 A) x^2 - y^2, x = 4, y = 5 : given 4^2 - 5^2 : substitute x and y with given values = 16 - 25 = -9 B) |4x - 2y|, x = -2, y = 3 : given |4(-2) - 2(3)| : replace x and y with given values = |-14| = 14 : rating C) 3x^3 - 4y^4, x = -1, y = -2 : given 3(-1)^3 - 4(-2)^4 : substitute x and y with given values = -3 - 64 = -67 : rating A) x + 6 < 8 : 0 : 10 - 6 < 8 : -6 : subtracts 6 on both sides < : -6 : group of similar terms C) x + 1 < 8 : 5 : given x + 1 - 1 < 8 - 1 : subtract 1 on both sides < : 4 : group as 2(x - 2) < 12 : 12 : given x - 2 < 6 : 6 : multiply both sides with 1/2 x - 2 < 6 : 6 + 2 : add 2 to both sides < : 8 : group as terms A) (-1) a = 1 : definition: a is reciprocal on -1 a = 1 / -1 = -1 : solve for a -1 is the reciprocal of -1 B) (0) b = 1 : definition: b is reciprocal at 0 b = indeterminate: no value of b that satisfies the above equation C) (3/4) c = 1 : definition: c is the reciprocal number of 3/4 c = 4/3 : solving for c, c = 4/3 is the reciprocal 3/4 D) (2 5/7) d = 1 : definition: d is reciprocal at 2 5/7, (19/7) d = 1 : converts the mixed number 2 5/7 to fraction d = 7/19 : solve for d, d = 7/19 is reciprocal at 2(5/7) E) 0.02 d = 1 : definition: d is reciprocal at 0.02 d = 1/0.02 : solve for d, d = 50 is the reciprocal 0.02 A) 3 3/4 + 6 1/7 : given = (3 + 6) + (3/4 + 1/7) : Glad all parts and parts of parts = 9 + (21/28 + 4/28) : add on, 28B) (1 3/5) x (3 1/3) - 2 1/2 : given = (9/5) x (10/3) - 2 1/2 : conversion of mixed numbers in multiply in fractions = 80/15 - 2 1/2 = 5 1/3 - 2 1/2 = 4 4/3 - 2 1/2 : multiply and recorded as a mixed number, if possible = (4 - 2) + (4/3 - 1/2) : subtraction = 2 5/6 C) (5 2/3) + (4 1/5) : given (1) = (1 7/3) + (2/15) : convert mixed numbers to fractions = 85/3 : Split fractions = 1 22/3 : write as mixed D) (3 4/7 - 1 1/2) + (2 3/8 - 2 1/4) : [3 - - + (4/7 - 1/2)] + [(2 + 2) + (3/8 + 1/4)] : evaluate numerator and denominator as fractions = (2 1/4) + (4 5/8) = (29/14) + (37/8) = 116/259A) -42 = -(4 x 4) = -16 : expand and calculate B) (-2)^3 = (-2)(-2)(-2) = -8 : expand and calculate C) 10000 = 1 : definition: any nonzero number to the power zero gives 1 D) 5661 = 566A) 0.02 = 1/50B) 12% = 3/25C) 0.5% = 1/200D) 1.12 = 28/25A) 1/5 = 0.2B) 120% = 1.2C) 0.2% = 0.002D) 4 8/5 = 5.6A) 3/10 = 30%B) 1.4 = 140%C) 123.45 = 12345%D) 2 4/5 = 280%A) 156312 , is not divisible by 3B) 176314 , is not divisible by 3A) 3432 , is divisible by 4B) 1257 , is not divisible by 4A) 1233 , is not divisible by 6B) 3432 , is divisible by 6A) 2538 , is divisible by 9B) 1451 , is not divisible by 9 Evaluate 8x + 7 given that x - 3 = 10. x - 3 = 10 : equation = 10 + 3 = 13 : solve the given equation 8(13) + 7 = 111 substitute x with 3 in the given expression and rating. Secondary School of Mathematics (6, 7, 9, 6, 9) - Free questions and problems with mathematics at school (10, 11 and 12) - Free questions and problems with primary math answers (4 and 5 degrees) with free questions and problems with answers report this advertisement. Please find below a modest collection of worksheets for general practice for mathematics, class 3-12. They are only basic, but during the test, the slightest additional practice can make a big difference. Also, please note that these worksheets and their solutions are created by hand, if you find any errors, please report them to Ezy Math Tutoring, so we can make adjustments. Algebra worksheets & Printable These worksheets are printed PDF exercises of the highest quality. Writing reinforces mathematics. These mathematical worksheets for children contain pre-algebra & algebra exercises suitable for preschool, kindergarten, first grade to eighth grade, free PDF worksheets, 6th grade mathematical worksheets. 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