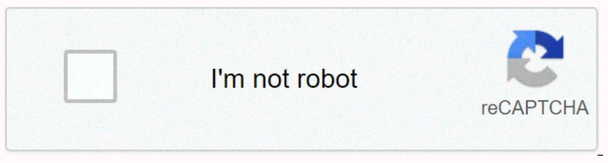

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Homework on factoring by greatest common factor worksheet answers

6th, 7th, 8th, 9th, 10th, 11th, 12th 12th 15th, 6th, 6th, 6th, 7th, 7th, 7th, 7th, 8th, 8th, 9th, 9th, 10th, HomeschoolPage 35th, 6th, 8th, 9th, 10th, 11th, 12th, Higher Education, Homeschopage 49.10, 11th, 11th , 12th, Higher Education, Adult Education 56th, 7th, 8th, 9th, 10th, 11th, 12th, 12th, Higher Education, Adult Education, HomeschoolPage 6th, 7th, 8th, 9th, 10th, 11th, 12th, Higher Education, Adult Education, Homeschool 6th, 7th, 8th, 9th, 10th, 11th, 12thPage 25th, 6th, 7th, 8th, 9th, 10th, HomeschoolPage 35th , 6th, 7th, 8th, 9th, 10th, 11th, 12th, Higher Education, HomeschoolPage 49th, 10th, 11th, 12th, Higher Education, Adult EducationPage 56th, 7th, 8th, 9th, 10th, 11th, 12th, Higher Education, Adult Education, HomeschoolPage 66th, 7th, 8th, 9th, 10th, 11th, 12th, Higher Education, Adult Education, Homeschool Do you feel difficult to solve problems for factor when Binom is a common factor? Don't worry!! We have provided a Spreadsheet at Factoring Binomials for your internship. Resolve all questions found in the Factoring Binomials spreadsheets and double-check answers to test your preparation level. Most of the questions given in this common Binomial Factor Spreadsheet introduce into the exam. Therefore, students can practice and get good scores easily by practicing all the methods found in the Binomial Factorization Worksheet. Take a look at the Factorization spreadsheets to get a complete handle on the entire factorization concept. How do you make Factorisation when a Binomial is a common factor? 1. Factorize the following binomials (i) 3x + 21 (ii) 7a – 14 (iii) b3 + 3b (iv) 20a + 5a2 (v) – 16m + 20m3 (vi) 5a 2 b + 15ab2 (vii) 9m2 + 5m (viii) 19x – 57y (ix) 25x2y2z3 – 15xy3z Solution: (i) The given expression is 3x + 21 Here, the first term is 3x and the second term is 21 By comparing the above two terms, we can observe the biggest common factor and it is 3 Now , factor out the largest common factor from the expression That is, 3 [x + 7] 3 [x + 7] Therefore, the resulting value of the expression 3x + 21 3 [x + 7] (ii) The given expression is 7a – 14 Here is the first term 7a and the second term is 14 By comparing the above two terms we can observe the largest common factor and which is 7 Now , factor out the largest common factor from the expression That is 7 [a – 2] 7 [a – 2] Therefore, the resulting value of the expression 7a – 14 is 7 [a – 2] (iii) The given expression is b3 + 3b Here is the first term b3 and the second term is 3b By comparing the above two terms we can observe the largest common factor and which is b Now , factor out the largest common factor from the expression That is b [b² + 3] b [b² + 3] Therefore, the resulting value of the expression b3 + 3b b [b² + 3] (iv) The given expression is 20a + 5a2 Here is the first term 20a and the second term is 5a2 By comparing the two above terms we can we can common factor and it is 5a Now, factor out the biggest common factor from the expression That is 5a [4 + a] 5a [4 + a] Therefore, the resulting value of the expression 20a + 5a2 5a [4 + a] (v) The given expression is – 16m + 20m3 Here is the first term – 16m, and the second term is 20m3 By comparing the two above terms , we can observe the biggest common factor and which is 4m Now, factor out the largest common factor from the expression Which is, 4m [-4 + 5m²] 4m [-4 + 5m²] Therefore, the resulting value of the expression – 16m + 20m3 4m [-4 + 5m²] (vi) The given expression is 5a2b + 15ab2 Here is the first term 5a2b and the second term is 15ab2 By comparing the above term two , we can observe the biggest common factor and it is 5ab Now, factor out the largest common factor from the expression That is, 5ab [a + 3b] 5ab [a + 3b] Therefore, the resulting value of the expression 5a2b + 15ab2 5ab [a + 3b] (vii) The given expression is 9m2 + 5m Here is the first term 9m2 and the second term is 5m By comparing the above two terms , we can observe the biggest common factor and it is m Now, factor out the biggest common factor from the expression That is, m [9m + 5] m [9m + 5] Therefore, the resulting value of the expression 9m2 + 5m m [9m + 5] (viii) The given expression is 19x – 57y Here is the first term 19x and the second term is – 57y By comparing the above two terms , we can observe the biggest common factor and it is 19 Now, factor out the largest common factor from the expression That is 19 [x – 3y] 19 [x – 3y] Therefore, the resulting value of the expression 19x – 57y is 19 [x – 3y] (ix) The given expression is 25x2y2z3 – 15xy3z Here is the first term 25x2y2z3 and the second term is – 15xy3z By comparing the above two terms , we can observe the biggest common factor and it is 5xy2z Now, factor out the largest common factor from the expression That is, 5xy2z [5xz2 – 3y] 5xy2z [5xz2 – 3y] Therefore, the resulting value of the expression is 25x2y2z3 – 15xy3z 5xy2z [5xz2 – 3y] 2. Factor each of the following algebraic expressions (i) 13x + 39 (ii) 19a – 57b (iii) 21ab + 49abc (iv) – 16x + 20x3 (v) 12a2 b – 42abc (vi) 27m3n3 + 36m4n2 Solution: (i) The given expression is 13x + 39 Here is the first term 13x and the second term is 39 By comparing the above two terms, we can observe the biggest common factor and it is 13 Now , factor out the largest common factor from the expression That is 13 [x + 3] 13 [x + 3] Therefore, the resulting value of the expression 13x + 39 13 [x + 3] (ii) The given expression is 19a – 57b Here is the first term 19a and the second term is – 57b By comparing the above two terms we can observe the common greatest factor and it is 19 Now , factor out the biggest common factor expression Which is, 19 [en – 3b] 19 [a – – Therefore, the resultant value of the expression 19a – 57b is 19 [a – 3b] (iii) The given expression is 21ab + 49abc Here, the first term is 21ab and the second term is 49abc By comparing the above two terms, we can observe the common biggest factor and it is 7ab Now, factor out the largest common factor from the expression That is, 7ab [3 + 7c] 7ab [3 + 7c] Therefore, the resulting value of the expression 21ab + 49abc 7ab [3 + 7c] (iv) The given expression is – 16x + 20x3 Here is the first term – 16x and the second term is 20x3 By comparing the above two terms, we can observe the largest common factor and it is 4x Now, factor out the largest common factor from the expression It is It is , 4x [-4 + 5x²] 4x [-4 + 5x²] Therefore, the resulting value of the expression – 16x + 20x3 4x [-4 + 5x²] (v) The given expression is 12a2b – 42abc Here, the first term is 12a2b and the second term is – 42abc By comparing the above two terms, we can observe the largest common factor and it is 6 Nuab, factor out the largest common factor from the expression It is, 6ab [2a – 7bc] 6ab [2a – 7bc] Therefore, the resulting value of the expression 12a2b – 42abc 6ab [2a – 7bc] (vi) Is the given the expression is 12a2b – 42abc 6ab [2a – 7bc] (vi) The given expression is given expression is given27m3n3 + 36m4n2 Here is the first term 27m3n3 and the second term is 36m4n2 By comparing the above two terms we can observe the biggest common factor and it is 9m3n2 Now , factor out the largest common factor from the expression That is 9m3n2 [3n + 4m] 9m3n2 [3n + 4m] Therefore, the resulting value of the expression is 27m3n3 + 36m4n2 9m3n2 [3n + 4m] 1) Find the largest common factor of the numbers 40 and 56 by the breakdown method. 2) Find the biggest common factor of the numbers 18, 24 and 30 by factor tree method. 3) Find the biggest common factor of the numbers 36 and 48 by prime factorization method. 4) Find the biggest common factor of the numbers 156 and 124 by division method. 5) Find the biggest common factor of the numbers 16 and 24 by division method. 6) Find the biggest common factor numbers 84 and 120 by division method. 7) Find the largest common factor of the numbers 30, 40 and 60 using the breakdown method. 8) Find the largest common factor of the numbers 0.45 and 0.75.9) Find the largest common factor of the numbers 0.48 and 0.6.10) Find the largest common factor of the two fractions 3/5 and 7/10. Detailed Answers Key Answers (1) : The product of common factors of 40 and 56 is= 2 x 2 x 2 = 8So, GCF (40, 56) = 8.Answer (2) :Find the factors 18, 24 and 30 by tree method. Let's find factors 18, 24 and 30 (using divisibility test rules will also help). The factors for 18 are 1, 2, 3, 6, 9 and 18.The factors for 24 are 1, 2, 3, 4, 6, 8, 12 and 24.De factors 30 is 1, 2, 3, 5, 6, 10, 15 and 30.De factors common to all three given digits are 1, 2, 3 3 6 of which 6 are highest. So, GCF (18, 24, 30) = 6.Note :1 is a trivial factor of all numbers. Answer (3) :Write the main factors 36 and 48. 36 = 2 x 2 x 3 x 3 48 = 2 x 2 x 2 x 2 x 3The main factors common to 36 and 48 are2, 2 and 3Product of common primfactors := 2 x 2 x 3= 12So, GCF (36, 48) = 12.Answer (4) : The product of common factors of 156 and 124 is= 2 x 2= 4So, GCF (156, 124) = 4.Answer (5) : The product of common factors of 16 and 24 is= 2 x 2 x 2= 8So, GCF (16, 24) = 8.Answer (6) : The product of common factors of 84 and 120 is= 2 x 2 x 3= 12So, GCF (84, 120) = 12.Answer (7) : The product of common factors of 30, 40 and 60 is= 2 x 5= 1So0 , GCF (30, 40, 60) = 10.Answer (8) : In the given two numbers 0.45 and 0.75 we find the same number after the decimal point. That is, two digits. To get rid of the decimal point, we need to multiply each number by 100.0.45 x 100 = 450.75 x 100 = 75Find the largest common factor 45 and 75 using the prime factorization method. Write the main factors at 45 and 75 as below. 45 = 3 x 3 x 5 75 = 3 x 5 x 5The main factors common to 45 and 75 are3 and 5Product of common primorlike factors := 3 x 5= 15GCF (45, 75) = 15.Divide GCF (15) by 100.15 / 100 = 0.15So, the largest common factor of 0.45 and 0.75 is0.15Answer (9) : In the given two numbers 0.48 and 0.6, we find more number of digits after the decimal point in 0.48. That is, two digits. (To get rid of the decimal point, we must always multiply both digits with the same powers of 10) To get rid of the decimal point, we need to multiply each number by 100.0.48 x 100 = 480.6 x 100 = 60Find the largest common factor 48 and 60 using the prime factorization method. Write the main factors at 48 and 60 as below. 48 = 2 x 2 x 2 x 2 x 3 60 = 2 x 2 x 3 x 5The prime factors common to 48 and 60 are2, 2 and 3Product of common prime factors := 2 x 2 x 3= 12GCF (48, 60) = 12.Divide GCF (12) by 100.12 / 100 = 0.12So, the largest common factor 0.48 and 0.6 is0.12Answer (10) :Formula to find the largest common factor (GCF) of fractions := GCF of numerator / LCM of denominator*GCF -----> largest common divisor*LCM -----> least common multipleGCF of numerators (3, 7) = 1LCM of denominators (5, 10) = 10Greatest common factor 3/5 and 7/10 is = 1/10 Apart from the things given above, if you need any other things in math, please use our google custom search here. If you have any feedback about our math content, please email us : v4formath@gmail.comWe always appreciate your feedback. You can also visit the following web pages on different things in math. WORD PROBLEMSHCF and LCM word problemsWord problemWord problem on simple equations Word problem on linear equations Word problem on square word problemWord problem on trainArea and perimeter word problemWord problemWord problemWord problem on direct variation and reverse variation Word problem on unit priceWord problem on unit rate Word problem on comparing pricesConvert customary units word problems Convert metric units words problemWord problemWord problem on simple rateWord problem on compound interestWord problem on types of angles Complementary and complementary angles word problemsDouble facts words problemTrigonometry word problemPercentages word problems Profit and loss word problems Markup and markdown words problems Decimal word problemWord problem on fractionS problem on mixed fractrionsA step equation word problemStroke inequalities words problemsRatio and proportion word problemsTime and work word problemsWord problemsWord problems on sets and venn diagramS problem on agesPythagorean theorem word problemPercentage of a number of words problemsWord problemWord problemsWord problems on constant speedWord problems on average speed Word problems on the sum of the angles of a triangle is 180OTHER degree TOPICS Profit and loss shortcutsPercentage shortcutsTablestable shortcutsTime , speed and distance shortcutsRatio and proportions shortcutsDomain and range of rational functionsDomain and range of rational functions with holeGraphing rational functionsGraphing rational functions with holesConvert repeating decimalplaces in to fractionDecimal representation of rational numbersFind square root using long divisionL.C.M method to solve time and work problemsTranslate the word problem into algebraic expressionForan when 2 power 256 divided by 17Strengthening when 17 power 23 divided by 16Total of all three digit numbers divisible by 6Sum of all three digits digit number divisible by 7Sum of all three digits numbers divisible by 8Sum of all three digits numbers formed using 1, 3, 4Sum of all three four digit numbers formed by means of 1,5 digit numbers for 1, 2, 3Sum of all three four digits formed using 1, 2, 5, 6

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