

### using the gcf and pdf

We use factored polynomials to help us solve equations, learn behaviors of graphs, work with fractions and more. Because so many concepts in algebra depend on us being able to factor polynomials it is very important to have very strong factoring skills. In this lesson we will focus on factoring using the greatest common factor or GCF of a polynomial.

### 6.1 Factoring - Greatest Common Factor

2 Ch 61 Using the GCF in Equations and Formulas EXAMPLE 1: Solve for  $n$ :  $3n(2n - 13) = 0$  Solution: We have something  $(3n)$  times something else  $(2n - 13)$  whose product is 0. We saw above that if something times something is 0, then either the first something is 0 or the second something is 0.

### CH 61 USING THE GCF IN EQUATIONS AND FORMULAS

Name: \_\_\_\_\_ Greatest Common Factor When you find all the factors of two or more numbers, and you find some factors are the same ("common"), the largest

### Greatest Common Factor - SuperTeacherWorksheets

© 2012 L2H0F1h2 8 bKyuat Yal 3S 2o nfjt pwMaXr7e 5 cLGLfC W.I F FA3I RIV Qr9i fg uhMtMsO erGeks 3e ar bvte 8d c.2 Z 5Mia fd heD Bwli VtXhM oIXnuf ciBnoiBtUet RPs6e F-JA el 0g geOb Ar7ad.

### Greatest Common Factor

Find the GCF of 12 and 18. Step 1: List the prime factorization of each number. 12:  $2 \times 2 \times 3$  or  $2^2 \times 3$ . 18:  $2 \times 3 \times 3$  or  $2 \times 3^2$ . Step 2: Look for factors that are common, or the same, in both lists.

### Using Prime Factors GCF and LCM 1 - Home - Campbell County

GCF and Factoring by Grouping. The greatest common factor, or GCF, is the largest factor each term has in common. The GCF can include numbers and variables. In terms of numbers, it is the largest factor each number has in common. For example, 4 is the greatest common factor of the two numbers 4 and 20.

### GCF and Factoring by Grouping - Saddleback College

Word Problems Involving Highest Common Factor and Lowest Common Multiple Read each question carefully and think about what the question is asking.

### Word Problems Involving Greatest Common Factor And Least

Basic Arithmetic Skill Finding the Greatest Common Factor of Whole Numbers Find the GCF of each using the prime factorization of each whole number.

### Finding the Greatest Common Factor of Whole Numbers

© 2012 VKnugtpac 4Spo4fXtywGaprYe6 ILJLxCP.M D uAtl olh zrUi5gphXtbs1 0rGeNsreFrlvAeidP.I 2 rMiajd UeL dwoiRtqht sIQnDffi3nxi0tWeL LA9lvqNexbOrJas Z1n.q Worksheet by Kuta Software LLC

### Factoring - Greatest Common Factor

GCF: A Greatest Common Factor is the largest number that is a factor of two or more numbers. When looking for the Greatest Common Factor, you are only looking for the COMMON factors contained in both

numbers. If there are no such factors that are common to both, then 1 is the greatest common factor. The Greatest Common Factor for 36 and 54 is 18.

### **LCM and GCF Least Common Multiple Greatest Common Factor**

GCF of Polynomials. Gain an in-depth knowledge in finding the Greatest Common Factor of polynomials with these worksheets available in easy and moderate levels, find the GCF of two or three monomials, GCF of polynomials, find the GCF using the division method and more! (45 Worksheets)

### **Greatest Common Factor Worksheets**

Factoring Practice I. Greatest Common Factor (GCF) Find the GCF of the numbers. 1. 12, 18 2. 10, 35 3. 8, 30 4. 16, 24 5. 28, 49 6. 27, 63

### **Factoring Practice - Metropolitan Community College**

Lesson 7 Using the GCF to Factor Polynomials LA25 EXAMPLE 2 Using GCF to Factor Polynomials Factor  $30x^2 + 12x$ . First, find the GCF of  $30x^2$  and  $12x$ .  $30x^2 = 2 \cdot 3 \cdot 5 \cdot x \cdot x$  Write the prime factorization of  $30x^2$  and  $12x$ .  $12x = 2 \cdot 2 \cdot 3 \cdot x$  Circle the common factors. The GCF of  $30x^2$  and  $12x$  is  $6x$ . Write each term as a product of the GCF and

### **Using the GCF to Factor Polynomials - Glencoe**

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[The Dining Room Battle - The Little Stranger \(Movie Tie-In\) - The Lunar Secret \(The Ayla St. John Chronicles Book 3\) - The Holy War, Made by King Shaddai Upon Diabolus, for the Regaining of the - The Fearless Mindset: The Entrepreneur's Guide To Get Fit In Less Time, Double Your Income, & Become Unstoppable - The Girl on the Bridge \(McCabe & Savage Thriller #5\) - The Black Fairy and The Dragonfly: Escape From The Dark Queen - The Financial Healer: Change Your Self-Worth, Increase Your Net Worth - The Book of Enoch or 1 Enoch - The Man in the Mist - The Collected Works and Sermons of Reverend Andrew Murray - The Conscious Parent's Guide to Raising Boys: A Mindful Approach to Raising a Confident, Resilient Son \(The Conscious Parent's Guides\) - The Birth of Satan: Do you really know who he is? - The Fearless Organization: Creating Psychological Safety in the Workplace for Learning, Innovation, and GrowthCreating a Learning Society: A New Approach to Growth, Development, and Social Progress \(Kenneth Arrow Lecture Series\) - The Cardboard Shack Beneath the Bridge - The Flying Instructor's Patter Manual: A word for word account of all the flying exercises as spoken in the air - The Complete Project Gutenberg Works of Jane Austen - The Bimbo Pill: Revenge is a dish best served cold - The Dog Repair Book: A Do-It-Yourself Guide for the Dog Owner - The Frog Prince - El príncipe rana \(Key West Bilingual Fairy Tales Book 18\)Frog and Toad All Year \(Frog and Toad, #3\) - The Guitar Amplifier Player's Troubleshooting Guide: A Do It Yourself Troubleshooting Guide For Musicians \(Volume 1\) - The Jungle\[Illustrated\] - The Great Missouri Raid: Sterling Price and the Last Major Confederate Campaign in Northern Territory - The Late Mattia Pascal - The Jesuit Mission to New France: A New Interpretation in the Light of the Earlier Jesuit Experience in Japan - The First 5 Laws of Wealth - The Boy Who Came From The Golden Gourd - The Decameron of Giovanni Boccaccio \(Il Boccaccio\): Now First Completely Done Into English Prose and Verse - The French Cinema Book \(expanded edition\) - The Boy Who Fell into a Book - The Crooked Man, Sherlock Holmes: \(Arthur Conan Doyle Masterpiece Collection\) - The Cross-Cultural Communication Trainer's Manual, Volume 1: Designing Cross-Cultural Training - The Effects of Whole-Body Vibration - The Man Who Ate the Phoenix - The Cauldron of Oil: A Case Worth Looking At - The Brown-Reynolds duel; a complete documentary chronicle of the last bloodshed under the code between St. Louisans, from the manuscript collection of William K. Bixby, ed - The Complete Adventures of Handsome Jack \(Gender Transformation Novella\)The Adventures of Huckleberry Finn -](#)