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Case Studies - Internet Algebra 1	Name _____
Mathematical Polyominoes	Date _____ Period _____
Find each product.	$(x + 6)(x + 1)$
Find each product.	$(x + 3)(x + 2)$
Find each product.	$(x + 4)(x + 3)$
Find each product.	$(x + 5)(x + 4)$
Find each product.	$(x + 6)(x + 5)$
Find each product.	$(x + 7)(x + 6)$
Find each product.	$(x + 8)(x + 7)$
Find each product.	$(x + 9)(x + 8)$
Find each product.	$(x + 10)(x + 9)$
Find each product.	$(x + 11)(x + 10)$
Find each product.	$(x + 12)(x + 11)$
Find each product.	$(x + 13)(x + 12)$
Find each product.	$(x + 14)(x + 13)$
Find each product.	$(x + 15)(x + 14)$
Find each product.	$(x + 16)(x + 15)$
Find each product.	$(x + 17)(x + 16)$
Find each product.	$(x + 18)(x + 17)$
Find each product.	$(x + 19)(x + 18)$
Find each product.	$(x + 20)(x + 19)$
Find each product.	$(x + 21)(x + 20)$
Find each product.	$(x + 22)(x + 21)$
Find each product.	$(x + 23)(x + 22)$
Find each product.	$(x + 24)(x + 23)$
Find each product.	$(x + 25)(x + 24)$
Find each product.	$(x + 26)(x + 25)$
Find each product.	$(x + 27)(x + 26)$
Find each product.	$(x + 28)(x + 27)$
Find each product.	$(x + 29)(x + 28)$
Find each product.	$(x + 30)(x + 29)$
Find each product.	$(x + 31)(x + 30)$
Find each product.	$(x + 32)(x + 31)$
Find each product.	$(x + 33)(x + 32)$
Find each product.	$(x + 34)(x + 33)$
Find each product.	$(x + 35)(x + 34)$
Find each product.	$(x + 36)(x + 35)$
Find each product.	$(x + 37)(x + 36)$
Find each product.	$(x + 38)(x + 37)$
Find each product.	$(x + 39)(x + 38)$
Find each product.	$(x + 40)(x + 39)$
Find each product.	$(x + 41)(x + 40)$
Find each product.	$(x + 42)(x + 41)$
Find each product.	$(x + 43)(x + 42)$
Find each product.	$(x + 44)(x + 43)$
Find each product.	$(x + 45)(x + 44)$
Find each product.	$(x + 46)(x + 45)$
Find each product.	$(x + 47)(x + 46)$
Find each product.	$(x + 48)(x + 47)$
Find each product.	$(x + 49)(x + 48)$
Find each product.	$(x + 50)(x + 49)$
Find each product.	$(x + 51)(x + 50)$
Find each product.	$(x + 52)(x + 51)$
Find each product.	$(x + 53)(x + 52)$
Find each product.	$(x + 54)(x + 53)$
Find each product.	$(x + 55)(x + 54)$
Find each product.	$(x + 56)(x + 55)$
Find each product.	$(x + 57)(x + 56)$
Find each product.	$(x + 58)(x + 57)$
Find each product.	$(x + 59)(x + 58)$
Find each product.	$(x + 60)(x + 59)$

13) $(4x - 1)^2$ $16x^2 - 8x + 1$	14) $(7x - 6)(5x + 6)$ $35x^2 + 12x - 36$
15) $(6x + 3)(6x - 3)$ $36x^2 - 9x - 12$	16) $(3x + 10)(6x - 3)$ $18x^2 + 51x - 3$
17) $(6x + 5)(5x + 5)$ $30x^2 + 55x + 25$	18) $(3x - 4)(6x + 2)$ $12x^2 - 7x - 12$
19) $(4x + 2)(6x^2 - x + 2)$ $24x^3 + 8x^2 + 6x + 4$	20) $(7x - 3)(4x^2 - 2x + 7)$ $28x^3 - 17x^2 + 55x - 21$
21) $(7x^2 - 6x - 6)(2x - 4)$ $14x^3 - 40x^2 + 12x + 24$	22) $(x + 6)(x - 6)(2x + 4)$ $2x^3 + 6x^2 - 32x + 16$
23) $(6x^2 - 6x - 5)(5x^2 + 6x - 5)$ $30x^4 - 6x^3 - 10x^2 + 25$	24) $(x^2 - 7x - 6)(7x^2 - 3x - 7)$ $7x^4 - 52x^3 - 28x^2 + 67x + 42$

-2-

$$72x^2 - 2 = 2(36x^2 - 1)$$

$$= 2((6x)^2 - (1)^2)$$

$$= 2(6x + 1)(6x - 1)$$

Factoring Quadratic Expressions (A)	
Name _____ Date _____	
Factor each expression.	
$x^2 - 4x - 40$	$= (x - 8)(x + 5)$
$x^2 - 5x - 14$	$= (x - 7)(x + 2)$
$x^2 - 13x + 12$	$= (x - 12)(x - 1)$
$x^2 - 13x + 36$	$= (x - 12)(x - 3)$
$x^2 - 12x + 36$	$= (x - 6)(x - 6)$
$x^2 - 12x + 32$	$= (x - 8)(x - 4)$
$x^2 - 12x + 35$	$= (x - 7)(x - 5)$
$x^2 - 12x + 33$	$= (x - 6)(x - 7)$
$x^2 - 12x + 30$	$= (x - 5)(x - 6)$
$x^2 - 12x + 28$	$= (x - 4)(x - 7)$
$x^2 - 12x + 27$	$= (x - 3)(x - 9)$
$x^2 - 12x + 26$	$= (x - 2)(x - 11)$
$x^2 - 12x + 25$	$= (x - 1)(x - 12)$

Common Core Standard: A-SSE.A.1, A-SSE.B.3, A-APR.A.1, A-APR.B.3, A-CED.A.1, A-SSE.A.2. 7h agoFactor 2-7 +6. Homework: You should now be ready to attempt problems 3-4 in "Homework - Algebra 1.5" on WeBWorK. FACTORING BY GROUPING Study the box in your textbook section titled "factor by grouping." To factor a trinomial in the form  $2x^2 + b$  by grouping, we find two numbers with a product. 7h ago1 Factoring Trinomials Guided Notes 2 Algebra 1 - Notes Packet Name: Pd: Factoring Trinomials Clear Targets: I can factor trinomials with and without a. 10h ago2b sitiawanEXAMPLE: Factor:  $8x^3 - 34x^2 + 30x = 2x(4x^2 - 17x + 15)$  Step 2: Multiply a • c. Here, a = 4, c = 15, and a • c = 60. Next, list the factors of 60 to find the pair that adds to the middle term -17x. Note that the factors of 60 are both negative. Factors of 60 Sum of Factors. 11h agoScroll down the page for more examples and solutions on how to factor trinomials by grouping. Example: Factor: The following trinomial using the grouping method.  $x^2 + 6x + 8$ . Solution: Step 1: Find the product ac: (1)(8) = 8. Step 2: Find of two factors of 8 that add up to 6: 4 and 2. Step 3: Write 6x as the sum of 2x and 4x:  $x^2 + 2x + 4x + 8$ . Step 4: Group the two pairs of terms:  $(x^2 + 2x) + (4x + 8)$ . Step 5: Factor the GCF out of each group. Step 6: Factor the GCF out of the entire trinomial. Factor:  $x^2 + 6x + 8 = x(x + 2) + 4(x + 2) = (x + 2)(x + 4)$ . Step 7: Check the work. Factor polynomials with four terms using grouping. The first thing we will always do when factoring is try to factor out a GCF. This GCF is often a monomial like in the problem  $5xy + 10xz$  the GCF is the monomial 5x, so we would have  $5(y + 2z)$ . However, a GCF does not have to be a monomial, it could be a binomial. 12h agoandrad designs malvern hill house for sale13h agoSECTION 9.2. FACTORING TRINOMIALS OF THE FORM  $x^2 + bx + c$  Factoring with three terms, or trinomials, is the most important technique, especially for further algebra. Since factoring is a product of factors, we first look at multiplying to develop the process of factoring trinomials.. 10h agobmv enet cable setupUnit 12: Factoring Instructor Notes The Mathematics of Factoring ... Indeed, many textbooks do not use grouping for factoring trinomials, and instead use essentially a guess and check method. While factoring by grouping may initially be a more complex procedure, it has many significant advantages in the long term and is used in. 11h agoGuided Notes Factoring Polynomials by Grouping: File Size: 466 kb: File Type: pdf: Download File... Guided Notes Factoring Trinomials where a NOT 1: File Size: 11h ago unity get terrain texture at positionpatton obtiuary Multiplication of Integers Multiply the integers to find the product. A total of 48 problems are given in these integer worksheets for practice. Multiplication Squares | 2x2 Conceptualize the fundamentals of multiplying integers with this bath of interesting 2x2 squares. Multiply the integers in the rows and columns and write the products in the squares. Multiplication Squares | 3x3 Get students to multiply the positive and negative numbers in each row and column and fill in the empty boxes in each 3x3 square. Multiplying 3 or 4 Integers Find the product of the integers. Apply the multiplication sign rule. Each worksheet consists of ten problems. Integer Division Perform the division operation on the integers to find the quotient in these three pdf worksheets. Evaluate: Multiply and Divide Evaluate the expressions by substituting the values in the variables. Each printable worksheet for grade 7 and grade 8 contains four problems with three expressions each. Integer Multiplication Charts | Display Charts Designed to assist 6th grade students with multiplication of integers, this array of charts focuses on multiplication of integers from -5 to +5 and -10 to +10. Explore these visual aids and comprehend the two rules of multiplication of integers. Integer Multiplication Charts | Blank Charts Print this set of ready-to-print blank charts and practice multiplying integers from -10 to +10. It is a fairly straightforward process. The product of integers will be positive, if the signs are same and the answer will be negative, if the multiplying integers have different signs. Loading... Kuta Software Fast and easy to use Multiple-choice & free-response Never runs out of questions Multiple-version printing Classifying solids Volume Surface area © 2022 Kuta Software. All rights reserved.

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