Assignment 3	Factor using the greatest common factor.	Name:
Here is a mixture of multiplying and distributing problems. These are similar to what you may see	1. $8x + 4x^3$	Simplify each monomial using the powers to powers rule.
on the next test.		1. $(3x^3)^2$
1. $5x(x^2 - xy + 3y^2)$	2. $2x^4 + 3x^3 - 5x^2$	
	$2. \ 2x + 5x - 5x$	
$2. \ 2xy^2 \cdot yz^2 \cdot -xz$		2. $(2x^5y^2)^3$
$3x^2 y \left(x^4 y - yz + xz \right)$	3. $12ab^3 - 3a^2b^2$	
		3. $(5a^{3}bc^{4})^{2}$
4. $2xy^2(x^2+3xy-1)$		
	4. $15x^3 - 20$	
5. $(-ab^2)(-a^2b)(a^3c^2)$		4. $4x(x^3y)^3$
5. (-ab) ((-ab) (ac))		
	5. $4xy^3 - 6x^2 + 8x^3y$	
6. $-4xy^2z^3(2xy^3-3x^2z^2+y)$		5. $(3x^3y)^3(yz^2)$
7. $(-2xz)(3xy^2)(-y^3z)$	$6. 3x^2y^6 - 12x^3y^2 - 15xy^3$	
,. (,)(, , ,)	0. 5x y 12x y 15x y	
		6. $(x^2y)^3(xy^3)^5$
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FOIL Practice Multiply the expressions using FOIL. 1. $(3x+2)(x-3)$	 Proportional Word Problems Solve these word problems by writing and solving a proportion. 1. A man received \$120 for working 8 hours. How much would he receive for working 14 hours at the same rate of pay? 	Getting ready to Solve Quadratics. <i>Find two numbers that:</i> 1. Multiply to 24 and add to 10, 2. Multiply to -24 and add to 2,
2. $(x+4)(3x-5)$		3. Multiply to 24 and add to -11,
3. $(2x+3)(5x-3)$	2. If 3 apples cost \$1.23, find the cost of 17 apples at the same rate.	4. Multiply to -24 and add to -5,
		 5. Multiply to 24 and add to +25, <i>Find two numbers that multiply to the last</i>
4. $(x-6)(x-6)$	3. If beans are being sold for at the rate of 3	term and add to the middle term. 6. $x^2 + 9x + 18$
	cans for \$1.65 how many cans can be bought for \$4.95?	7. $x^2 + 7x - 18$
5. $(x-4)(x+2)$		8. $x^2 + 7x + 6$
6. $(2x-1)(3x+4)$	4 A 40-acre field yields 600 bushels of wheat. At the same rate what will a 75-acre field yield?	9. $x^2 + 5x + 6$
		10. $x^2 - 5x - 6$
		11. $x^2 + 8x - 20$