Name:	Date:	Unit 5 Class Wor
<u>Fa</u>	ctoring & Expanding Function	ons Class Work
♥ Objective: You will be able to rewrite quadratic expressions.		
* Names of Expression Expressions are t	<u>s</u> : ypically named according to the numb	per of terms they contain
★ Multiply/Expand Eac	h Expression	
1. 3x(2x + 5)	2. $(x-3)(x+8)$	3. $4(x+2)(x-7)$
*These problems we	re all provided in	form, and we re-wrote them in
		_ form.
★ <u>Factoring Expression</u> Factoring is esser	<u>s</u> : ntially the reverse of multiplying/expa	nding expressions.
	ssion as a product of monomials and/ ut any common monomials first ©)	or binomials.
4. $4x^2 - 24x$	5. $x^2 - 7x + 10$	6. $3x^2 - 6x - 45$
*These problems were all provided in		form, and we re-wrote them in

form.

★ More Practice:

Write the standard form or intercept form of each expression (whichever is not provided).

A.
$$(k^2 - 8)^2$$

B.
$$x^2 - 15x - 100$$

C.
$$8x^2 - 32x + 24$$

D.
$$x^3 + 18x^2 - 63x$$

E.
$$(2p^2 + 3)^2$$

F.
$$2x^4 + 6x^3 + 4x^2$$

G.
$$16x^2 - 64$$

H.
$$x^2 - 23x + 132$$

I.
$$9x^2 - 81$$

★ Exit Slip:

Factor each expression completely

1.
$$x^2 - 11x + 18$$

2.
$$3x^2 - 9x - 84$$