

Name _____

Date _____ Pd. _____

Notes: Factoring Trinomials

Example 1

Factor each trinomial.

a. $x^2 + 7x + 10$

b. $x^2 - 8x + 7$

Example 2

Factor $x^2 + 6x - 16$.

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Exit Card: Factoring Trinomials

Look at the rectangle below. Its width is represented by $x - 6$.



If the area of this rectangle is represented by $x^2 - 10x + 24$, which expression represents its length?

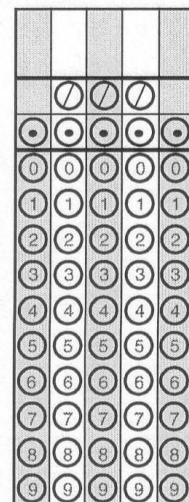
- F. $x + 4$ G. $x - 4$ H. $x - 18$ J. $x + 18$

The table below shows the number of handshakes that occur when each person in a group shakes every other persons hand once.

Number of People	Handshakes
2	1
3	3
4	6
5	10

A function for the number of handshakes for p people is given by $H(p) = \frac{1}{2}p^2 - \frac{1}{2}p$.

If there are 45 handshakes, how many people are there?



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Homework: Page 493 (17 – 25 odd, 30, 34)

17. Factor $a^2 + 8a + 15$	19. Factor $c^2 + 12c + 35$
21. Factor $m^2 - 22m + 21$	23. Factor $p^2 - 17p + 72$
25. Factor $h^2 + 3h - 40$	30. Factor $z^2 - 18z - 40$
34. Factor $x^2 - 13xy + 36y^2$	