

Names: _____ Date: _____ Period: _____

Discovery activity on special products, part 2

1) Using your algebra tiles, set up and simplify the following two products. Draw your solutions (what is inside the t-table) in the boxes provided, and write your solution in terms of x below each box.

A) $(x+3)^2$

B) $(x-3)^2$

Solution	Solution
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C) $(2x+1)^2$

D) $(2x-1)^2$

Solution	Solution
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2) What kind of patterns, if any, do you notice between the original binomials and their solutions?

3) Now, multiply the following binomials without algebra tiles.

C) $(x-12)^2$

D) $(x+15)^2$

E) $(-6x+7)^2$

F) $(11x-8)^2$

4) What do you notice between the original binomials and the resulting trinomials?

5) Now, for each of the problems above (A-F), replace the first term in the binomial by “a”, and the second term of the binomial by “b”, and simplify.

A)	B)	C)
D)	E)	F)

6) What conclusion(s) can you make based on your findings in #5?