

Try This 1 - 5

TT 1.

- a. Complete the multiplication array.

	$5x$	2
$3x$		
-5		

- b. What polynomials are being multiplied in this array?
- c. Where are the like terms in this array?
- d. What is the product in simplified form?
- e. Substitute $x = 2$ into the expressions for the original polynomials. Then evaluate the product.
- f. Substitute $x = 2$ into the expression for the product of the polynomials. Then evaluate.

TT 2.

- a. Complete the multiplication array.

	x^2	$-2x$	$+3$
x			
1			

- b. What polynomials are being multiplied in this array?
- c. Where are the like terms in this array?
- d. What is the product in simplified form?
- e. Choose any real value of x . Substitute this value into the expressions for the original polynomials. Then evaluate the product.
- f. Substitute the same value of x that you selected in 2.d. into the expression for the product of the polynomials. Then evaluate.

TT 3. In each of the multiplication arrays you completed, where were the like terms located?

TT 4. What did you notice about the answers in 1.e. versus 1.f. and 2.e. versus 2.f.? How can you explain your observation?

TT 5. Construct a question that satisfies the following conditions:

- involves the multiplication of a binomial and a trinomial
 - the product has one term that equals $10x$
- a. Explain the strategy that you used to create the question.
 - b. Show a method that you could use to solve the question.