



7-2 Reteach to Build Understanding

Multiplying Polynomials

1. Complete each product table using monomials. Then write the product for each table as a polynomial in standard form.

$(x + 4)(x - 5)$

	x	4
x		
-5		

The product is _____.

$(x + 4)(x^2 + 3x - 1)$

	x	4
x^2		
$3x$		
-1		

The product is _____.

2. Xavier said the product of a monomial and a binomial will always be a trinomial. Explain the error in his reasoning.

3. Complete the steps to find the product $(5x + 2)(x - 3)$ by writing expressions or numbers in the blanks.

$$(5x + 2)(x - 3) = \underline{\hspace{2cm}} \quad \text{Distribute } \underline{\hspace{1cm}} \text{ and } \underline{\hspace{1cm}} \text{ to the second binomial.}$$

$$= 5x(\underline{\hspace{1cm}}) + 5x(\underline{\hspace{1cm}}) + 2(\underline{\hspace{1cm}}) + 2(\underline{\hspace{1cm}}) \quad \text{Distribute } \underline{\hspace{1cm}} \text{ and } \underline{\hspace{1cm}} \text{ to each term in the second binomial.}$$

$$= \underline{\hspace{2cm}} \quad \text{Multiply.}$$

$$= \underline{\hspace{2cm}} \quad \text{Combine like terms.}$$

The product is _____.