

## 7.2 Practice A

In Exercises 1–3, use the Distributive Property to find the product.

1.  $(x + 4)(x + 5)$                       2.  $(x + 1)(x - 6)$                       3.  $(x - 2)(x - 7)$

In Exercises 4–6, use a table to find the product.

4.  $(y + 4)(y + 2)$                       5.  $(q + 4)(q - 7)$                       6.  $(2x - 3)(x - 1)$

7. Describe and correct the error in finding the product of the binomials.

$\times (x - 2)(5 - x)$

	<b>x</b>	<b>5</b>
<b>x</b>	$x^2$	$5x$
<b>-2</b>	$-2x$	$-10$

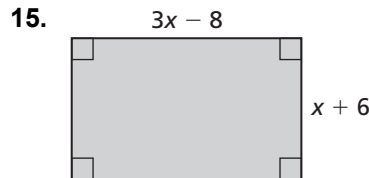
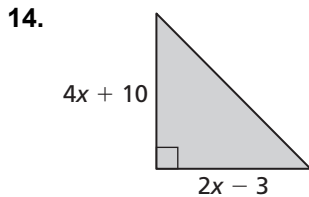
$(x - 2)(5 - x) = x^2 + 3x - 10$

In Exercises 8–13, use the FOIL Method to find the product.

8.  $(u + 2)(u + 9)$                       9.  $(w + 6)(w - 5)$                       10.  $(m - 1)(m + 8)$

11.  $(y - 6)(y - 3)$                       12.  $(q + \frac{1}{2})(q - \frac{3}{2})$                       13.  $(2 - 5t)(7 - t)$

In Exercises 14 and 15, write a polynomial that represents the area of the shaded region.



In Exercises 16–18, find the product.

16.  $(x + 2)(x^2 + 5x + 1)$                       17.  $(y + 5)(y^2 + 2y - 6)$                       18.  $(h - 7)(h^2 - 3h + 2)$

19. When multiplying a binomial by a trinomial, is the degree of the product always 5? Explain.