

## Multiplying Factors (H)

Find the product of each pair of factors.

1.  $(x - 3)(x - 3)$

11.  $(-x + 1)(x - 2)$

2.  $(x + 3)(x + 7)$

12.  $(-x - 5)(x + 3)$

3.  $(x + 4)(x + 4)$

13.  $(-x - 2)(-x + 2)$

4.  $(-x - 4)(-x + 6)$

14.  $(-x + 2)(x - 7)$

5.  $(-x - 5)(x + 1)$

15.  $(x + 2)(x + 1)$

6.  $(-x - 4)(x - 3)$

16.  $(-x + 1)(-x + 8)$

7.  $(-x - 1)(-x + 2)$

17.  $(-x + 1)(x - 3)$

8.  $(-x - 2)(-x + 6)$

18.  $(-x - 9)(x + 6)$

9.  $(x - 8)(x - 9)$

19.  $(-x - 9)(x + 3)$

10.  $(x + 5)(-x - 5)$

20.  $(x + 3)(-x - 9)$

# Multiplying Factors (H) Answers

Find the product of each pair of factors.

1.  $(x - 3)(x - 3)$   
 $x^2 - 6x + 9$

2.  $(x + 3)(x + 7)$   
 $x^2 + 10x + 21$

3.  $(x + 4)(x + 4)$   
 $x^2 + 8x + 16$

4.  $(-x - 4)(-x + 6)$   
 $x^2 - 2x - 24$

5.  $(-x - 5)(x + 1)$   
 $-x^2 - 6x - 5$

6.  $(-x - 4)(x - 3)$   
 $-x^2 - x + 12$

7.  $(-x - 1)(-x + 2)$   
 $x^2 - x - 2$

8.  $(-x - 2)(-x + 6)$   
 $x^2 - 4x - 12$

9.  $(x - 8)(x - 9)$   
 $x^2 - 17x + 72$

10.  $(x + 5)(-x - 5)$   
 $-x^2 - 10x - 25$

11.  $(-x + 1)(x - 2)$   
 $-x^2 + 3x - 2$

12.  $(-x - 5)(x + 3)$   
 $-x^2 - 8x - 15$

13.  $(-x - 2)(-x + 2)$   
 $x^2 - 4$

14.  $(-x + 2)(x - 7)$   
 $-x^2 + 9x - 14$

15.  $(x + 2)(x + 1)$   
 $x^2 + 3x + 2$

16.  $(-x + 1)(-x + 8)$   
 $x^2 - 9x + 8$

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

18.  $(-x - 9)(x + 6)$   
 $-x^2 - 15x - 54$

19.  $(-x - 9)(x + 3)$   
 $-x^2 - 12x - 27$

20.  $(x + 3)(-x - 9)$   
 $-x^2 - 12x - 27$