

Multiplying Factors (A)

Find the product of each pair of factors.

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

11. $(-4x - 6)(-x - 1)$

2. $(-4x + 3)(-7x + 3)$

12. $(-8x + 2)(-7x - 6)$

3. $(7x + 8)(2x - 1)$

13. $(-3x + 2)(-8x - 7)$

4. $(-4x - 9)(-4x - 3)$

14. $(-2x + 9)(-4x + 8)$

5. $(-6x + 9)(-4x - 2)$

15. $(-3x - 8)(6x + 8)$

6. $(-5x - 2)(-2x + 7)$

16. $(4x - 1)(3x + 4)$

7. $(2x - 1)(-2x + 5)$

17. $(x + 2)(-8x + 5)$

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

18. $(8x + 8)(-3x - 9)$

9. $(-3x + 9)(-4x + 2)$

19. $(5x - 2)(-8x - 1)$

10. $(4x + 3)(5x - 6)$

20. $(-2x - 4)(-8x + 4)$

Multiplying Factors (A) Answers

Find the product of each pair of factors.

1. $(-x - 4)(x + 4)$
 $-x^2 - 8x - 16$

2. $(-4x + 3)(-7x + 3)$
 $28x^2 - 33x + 9$

3. $(7x + 8)(2x - 1)$
 $14x^2 + 9x - 8$

4. $(-4x - 9)(-4x - 3)$
 $16x^2 + 48x + 27$

5. $(-6x + 9)(-4x - 2)$
 $24x^2 - 24x - 18$

6. $(-5x - 2)(-2x + 7)$
 $10x^2 - 31x - 14$

7. $(2x - 1)(-2x + 5)$
 $-4x^2 + 12x - 5$

8. $(-9x - 8)(x - 8)$
 $-9x^2 + 64x + 64$

9. $(-3x + 9)(-4x + 2)$
 $12x^2 - 42x + 18$

10. $(4x + 3)(5x - 6)$
 $20x^2 - 9x - 18$

11. $(-4x - 6)(-x - 1)$
 $4x^2 + 10x + 6$

12. $(-8x + 2)(-7x - 6)$
 $56x^2 + 34x - 12$

13. $(-3x + 2)(-8x - 7)$
 $24x^2 + 5x - 14$

14. $(-2x + 9)(-4x + 8)$
 $8x^2 - 52x + 72$

15. $(-3x - 8)(6x + 8)$
 $-18x^2 - 72x - 64$

16. $(4x - 1)(3x + 4)$
 $12x^2 + 13x - 4$

17. $(x + 2)(-8x + 5)$
 $-8x^2 - 11x + 10$

18. $(8x + 8)(-3x - 9)$
 $-24x^2 - 96x - 72$

19. $(5x - 2)(-8x - 1)$
 $-40x^2 + 11x + 2$

20. $(-2x - 4)(-8x + 4)$
 $16x^2 + 24x - 16$

Multiplying Factors (B)

Find the product of each pair of factors.

1. $(-3x - 1)(-6x + 6)$

11. $(3x + 7)(2x - 1)$

2. $(-8x - 8)(7x + 5)$

12. $(7x + 4)(-x + 1)$

3. $(6x - 7)(3x + 1)$

13. $(5x + 8)(-x + 4)$

4. $(4x + 4)(-4x + 7)$

14. $(3x - 1)(x + 1)$

5. $(8x + 5)(8x + 3)$

15. $(-9x - 4)(x + 4)$

6. $(2x - 8)(7x + 4)$

16. $(-7x + 7)(-x - 5)$

7. $(-2x + 1)(-2x - 9)$

17. $(4x - 8)(2x + 8)$

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

18. $(9x + 5)(3x - 8)$

9. $(4x + 2)(-5x + 9)$

19. $(x + 6)(3x + 2)$

10. $(-7x + 6)(-8x + 7)$

20. $(-8x - 3)(2x - 4)$

Multiplying Factors (B) Answers

Find the product of each pair of factors.

1. $(-3x - 1)(-6x + 6)$
 $18x^2 - 12x - 6$

2. $(-8x - 8)(7x + 5)$
 $-56x^2 - 96x - 40$

3. $(6x - 7)(3x + 1)$
 $18x^2 - 15x - 7$

4. $(4x + 4)(-4x + 7)$
 $-16x^2 + 12x + 28$

5. $(8x + 5)(8x + 3)$
 $64x^2 + 64x + 15$

6. $(2x - 8)(7x + 4)$
 $14x^2 - 48x - 32$

7. $(-2x + 1)(-2x - 9)$
 $4x^2 + 16x - 9$

8. $(8x + 2)(8x + 2)$
 $64x^2 + 32x + 4$

9. $(4x + 2)(-5x + 9)$
 $-20x^2 + 26x + 18$

10. $(-7x + 6)(-8x + 7)$
 $56x^2 - 97x + 42$

11. $(3x + 7)(2x - 1)$
 $6x^2 + 11x - 7$

12. $(7x + 4)(-x + 1)$
 $-7x^2 + 3x + 4$

13. $(5x + 8)(-x + 4)$
 $-5x^2 + 12x + 32$

14. $(3x - 1)(x + 1)$
 $3x^2 + 2x - 1$

15. $(-9x - 4)(x + 4)$
 $-9x^2 - 40x - 16$

16. $(-7x + 7)(-x - 5)$
 $7x^2 + 28x - 35$

17. $(4x - 8)(2x + 8)$
 $8x^2 + 16x - 64$

18. $(9x + 5)(3x - 8)$
 $27x^2 - 57x - 40$

19. $(x + 6)(3x + 2)$
 $3x^2 + 20x + 12$

20. $(-8x - 3)(2x - 4)$
 $-16x^2 + 26x + 12$

Multiplying Factors (C)

Find the product of each pair of factors.

1. $(9x + 5)(4x + 7)$

11. $(-x + 9)(9x - 1)$

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

12. $(9x - 8)(7x - 5)$

3. $(-8x - 4)(x - 9)$

13. $(3x - 4)(3x + 7)$

4. $(2x - 3)(-4x - 7)$

14. $(-6x - 6)(5x + 5)$

5. $(3x + 5)(-8x + 2)$

15. $(3x + 4)(x + 7)$

6. $(-7x - 6)(4x - 2)$

16. $(-3x - 1)(5x - 8)$

7. $(-9x + 5)(x + 4)$

17. $(-5x + 6)(6x + 5)$

8. $(-8x - 1)(4x - 7)$

18. $(5x - 7)(6x - 5)$

9. $(x - 7)(-3x + 4)$

19. $(-4x + 7)(-6x - 3)$

10. $(7x + 5)(-9x - 2)$

20. $(-2x - 4)(7x - 8)$

Multiplying Factors (C) Answers

Find the product of each pair of factors.

1. $(9x + 5)(4x + 7)$
 $36x^2 + 83x + 35$

2. $(6x + 8)(-4x - 4)$
 $-24x^2 - 56x - 32$

3. $(-8x - 4)(x - 9)$
 $-8x^2 + 68x + 36$

4. $(2x - 3)(-4x - 7)$
 $-8x^2 - 2x + 21$

5. $(3x + 5)(-8x + 2)$
 $-24x^2 - 34x + 10$

6. $(-7x - 6)(4x - 2)$
 $-28x^2 - 10x + 12$

7. $(-9x + 5)(x + 4)$
 $-9x^2 - 31x + 20$

8. $(-8x - 1)(4x - 7)$
 $-32x^2 + 52x + 7$

9. $(x - 7)(-3x + 4)$
 $-3x^2 + 25x - 28$

10. $(7x + 5)(-9x - 2)$
 $-63x^2 - 59x - 10$

11. $(-x + 9)(9x - 1)$
 $-9x^2 + 82x - 9$

12. $(9x - 8)(7x - 5)$
 $63x^2 - 101x + 40$

13. $(3x - 4)(3x + 7)$
 $9x^2 + 9x - 28$

14. $(-6x - 6)(5x + 5)$
 $-30x^2 - 60x - 30$

15. $(3x + 4)(x + 7)$
 $3x^2 + 25x + 28$

16. $(-3x - 1)(5x - 8)$
 $-15x^2 + 19x + 8$

17. $(-5x + 6)(6x + 5)$
 $-30x^2 + 11x + 30$

18. $(5x - 7)(6x - 5)$
 $30x^2 - 67x + 35$

19. $(-4x + 7)(-6x - 3)$
 $24x^2 - 30x - 21$

20. $(-2x - 4)(7x - 8)$
 $-14x^2 - 12x + 32$

Multiplying Factors (D)

Find the product of each pair of factors.

1. $(5x + 5)(8x + 7)$

11. $(x - 6)(-5x - 5)$

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

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

3. $(-3x - 8)(5x - 8)$

13. $(-5x + 2)(7x + 8)$

4. $(-8x + 9)(4x + 5)$

14. $(-8x - 6)(-6x + 6)$

5. $(7x - 8)(-5x + 7)$

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

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

16. $(6x - 2)(-6x - 8)$

7. $(-8x + 3)(-8x + 1)$

17. $(7x + 6)(9x + 6)$

8. $(7x + 9)(-x + 3)$

18. $(-6x - 2)(9x + 6)$

9. $(-9x + 4)(x - 4)$

19. $(3x - 2)(2x + 8)$

10. $(-x - 3)(2x + 6)$

20. $(2x - 1)(5x - 7)$

Multiplying Factors (D) Answers

Find the product of each pair of factors.

1. $(5x + 5)(8x + 7)$
 $40x^2 + 75x + 35$

2. $(-3x + 1)(3x - 3)$
 $-9x^2 + 12x - 3$

3. $(-3x - 8)(5x - 8)$
 $-15x^2 - 16x + 64$

4. $(-8x + 9)(4x + 5)$
 $-32x^2 - 4x + 45$

5. $(7x - 8)(-5x + 7)$
 $-35x^2 + 89x - 56$

6. $(4x + 5)(7x - 1)$
 $28x^2 + 31x - 5$

7. $(-8x + 3)(-8x + 1)$
 $64x^2 - 32x + 3$

8. $(7x + 9)(-x + 3)$
 $-7x^2 + 12x + 27$

9. $(-9x + 4)(x - 4)$
 $-9x^2 + 40x - 16$

10. $(-x - 3)(2x + 6)$
 $-2x^2 - 12x - 18$

11. $(x - 6)(-5x - 5)$
 $-5x^2 + 25x + 30$

12. $(-x + 6)(-2x - 4)$
 $2x^2 - 8x - 24$

13. $(-5x + 2)(7x + 8)$
 $-35x^2 - 26x + 16$

14. $(-8x - 6)(-6x + 6)$
 $48x^2 - 12x - 36$

15. $(-2x - 2)(2x + 2)$
 $-4x^2 - 8x - 4$

16. $(6x - 2)(-6x - 8)$
 $-36x^2 - 36x + 16$

17. $(7x + 6)(9x + 6)$
 $63x^2 + 96x + 36$

18. $(-6x - 2)(9x + 6)$
 $-54x^2 - 54x - 12$

19. $(3x - 2)(2x + 8)$
 $6x^2 + 20x - 16$

20. $(2x - 1)(5x - 7)$
 $10x^2 - 19x + 7$

Multiplying Factors (E)

Find the product of each pair of factors.

1. $(-9x + 5)(4x - 1)$

11. $(4x + 7)(4x + 9)$

2. $(4x + 3)(-9x - 7)$

12. $(-x - 6)(7x - 4)$

3. $(5x - 9)(x - 7)$

13. $(9x - 7)(7x + 4)$

4. $(-6x - 8)(-7x - 4)$

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

5. $(5x + 2)(6x + 3)$

15. $(2x + 7)(-2x - 8)$

6. $(-5x - 3)(-9x + 8)$

16. $(-x - 2)(9x - 5)$

7. $(4x - 8)(x - 4)$

17. $(8x + 4)(-8x + 7)$

8. $(8x + 8)(2x + 4)$

18. $(7x + 3)(-3x + 4)$

9. $(5x + 4)(5x + 9)$

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

10. $(2x - 1)(7x - 1)$

20. $(3x - 8)(x - 2)$

Multiplying Factors (E) Answers

Find the product of each pair of factors.

1. $(-9x + 5)(4x - 1)$
 $-36x^2 + 29x - 5$

2. $(4x + 3)(-9x - 7)$
 $-36x^2 - 55x - 21$

3. $(5x - 9)(x - 7)$
 $5x^2 - 44x + 63$

4. $(-6x - 8)(-7x - 4)$
 $42x^2 + 80x + 32$

5. $(5x + 2)(6x + 3)$
 $30x^2 + 27x + 6$

6. $(-5x - 3)(-9x + 8)$
 $45x^2 - 13x - 24$

7. $(4x - 8)(x - 4)$
 $4x^2 - 24x + 32$

8. $(8x + 8)(2x + 4)$
 $16x^2 + 48x + 32$

9. $(5x + 4)(5x + 9)$
 $25x^2 + 65x + 36$

10. $(2x - 1)(7x - 1)$
 $14x^2 - 9x + 1$

11. $(4x + 7)(4x + 9)$
 $16x^2 + 64x + 63$

12. $(-x - 6)(7x - 4)$
 $-7x^2 - 38x + 24$

13. $(9x - 7)(7x + 4)$
 $63x^2 - 13x - 28$

14. $(-7x - 7)(-2x - 7)$
 $14x^2 + 63x + 49$

15. $(2x + 7)(-2x - 8)$
 $-4x^2 - 30x - 56$

16. $(-x - 2)(9x - 5)$
 $-9x^2 - 13x + 10$

17. $(8x + 4)(-8x + 7)$
 $-64x^2 + 24x + 28$

18. $(7x + 3)(-3x + 4)$
 $-21x^2 + 19x + 12$

19. $(x + 5)(-x + 1)$
 $-x^2 - 4x + 5$

20. $(3x - 8)(x - 2)$
 $3x^2 - 14x + 16$

Multiplying Factors (F)

Find the product of each pair of factors.

1. $(4x + 2)(2x - 9)$

11. $(3x - 8)(-9x + 9)$

2. $(-9x - 4)(-5x - 7)$

12. $(-8x - 1)(5x + 1)$

3. $(-3x - 9)(6x + 8)$

13. $(x + 8)(-7x + 7)$

4. $(5x - 9)(-6x + 3)$

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

5. $(-7x + 9)(-6x + 7)$

15. $(-6x - 5)(-8x - 9)$

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

16. $(-2x - 5)(7x - 4)$

7. $(-6x - 3)(-2x - 5)$

17. $(-3x - 2)(x - 9)$

8. $(-4x + 6)(-8x - 6)$

18. $(-8x - 3)(-2x - 2)$

9. $(-8x + 8)(7x + 2)$

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

10. $(-x + 1)(-x - 4)$

20. $(7x - 4)(-6x - 1)$

Multiplying Factors (F) Answers

Find the product of each pair of factors.

1. $(4x + 2)(2x - 9)$
 $8x^2 - 32x - 18$

2. $(-9x - 4)(-5x - 7)$
 $45x^2 + 83x + 28$

3. $(-3x - 9)(6x + 8)$
 $-18x^2 - 78x - 72$

4. $(5x - 9)(-6x + 3)$
 $-30x^2 + 69x - 27$

5. $(-7x + 9)(-6x + 7)$
 $42x^2 - 103x + 63$

6. $(9x - 9)(9x - 9)$
 $81x^2 - 162x + 81$

7. $(-6x - 3)(-2x - 5)$
 $12x^2 + 36x + 15$

8. $(-4x + 6)(-8x - 6)$
 $32x^2 - 24x - 36$

9. $(-8x + 8)(7x + 2)$
 $-56x^2 + 40x + 16$

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

11. $(3x - 8)(-9x + 9)$
 $-27x^2 + 99x - 72$

12. $(-8x - 1)(5x + 1)$
 $-40x^2 - 13x - 1$

13. $(x + 8)(-7x + 7)$
 $-7x^2 - 49x + 56$

14. $(x + 7)(-3x + 2)$
 $-3x^2 - 19x + 14$

15. $(-6x - 5)(-8x - 9)$
 $48x^2 + 94x + 45$

16. $(-2x - 5)(7x - 4)$
 $-14x^2 - 27x + 20$

17. $(-3x - 2)(x - 9)$
 $-3x^2 + 25x + 18$

18. $(-8x - 3)(-2x - 2)$
 $16x^2 + 22x + 6$

19. $(-x - 8)(x + 2)$
 $-x^2 - 10x - 16$

20. $(7x - 4)(-6x - 1)$
 $-42x^2 + 17x + 4$

Multiplying Factors (G)

Find the product of each pair of factors.

1. $(-9x - 5)(7x + 5)$

11. $(-9x + 7)(5x + 2)$

2. $(4x - 2)(4x + 3)$

12. $(7x + 1)(x - 1)$

3. $(-6x - 2)(x - 6)$

13. $(2x + 1)(6x - 2)$

4. $(8x + 3)(-5x + 2)$

14. $(8x - 7)(8x + 7)$

5. $(7x - 2)(-9x - 3)$

15. $(-6x - 8)(9x + 4)$

6. $(9x - 6)(3x + 7)$

16. $(-3x - 5)(3x + 7)$

7. $(8x - 1)(5x + 7)$

17. $(x - 6)(9x - 5)$

8. $(9x + 6)(6x - 1)$

18. $(-8x + 5)(5x + 4)$

9. $(3x - 7)(-6x + 6)$

19. $(-2x - 9)(-7x + 4)$

10. $(-2x + 4)(x - 3)$

20. $(-8x + 7)(-8x - 6)$

Multiplying Factors (G) Answers

Find the product of each pair of factors.

1. $(-9x - 5)(7x + 5)$
 $-63x^2 - 80x - 25$

2. $(4x - 2)(4x + 3)$
 $16x^2 + 4x - 6$

3. $(-6x - 2)(x - 6)$
 $-6x^2 + 34x + 12$

4. $(8x + 3)(-5x + 2)$
 $-40x^2 + x + 6$

5. $(7x - 2)(-9x - 3)$
 $-63x^2 - 3x + 6$

6. $(9x - 6)(3x + 7)$
 $27x^2 + 45x - 42$

7. $(8x - 1)(5x + 7)$
 $40x^2 + 51x - 7$

8. $(9x + 6)(6x - 1)$
 $54x^2 + 27x - 6$

9. $(3x - 7)(-6x + 6)$
 $-18x^2 + 60x - 42$

10. $(-2x + 4)(x - 3)$
 $-2x^2 + 10x - 12$

11. $(-9x + 7)(5x + 2)$
 $-45x^2 + 17x + 14$

12. $(7x + 1)(x - 1)$
 $7x^2 - 6x - 1$

13. $(2x + 1)(6x - 2)$
 $12x^2 + 2x - 2$

14. $(8x - 7)(8x + 7)$
 $64x^2 - 49$

15. $(-6x - 8)(9x + 4)$
 $-54x^2 - 96x - 32$

16. $(-3x - 5)(3x + 7)$
 $-9x^2 - 36x - 35$

17. $(x - 6)(9x - 5)$
 $9x^2 - 59x + 30$

18. $(-8x + 5)(5x + 4)$
 $-40x^2 - 7x + 20$

19. $(-2x - 9)(-7x + 4)$
 $14x^2 + 55x - 36$

20. $(-8x + 7)(-8x - 6)$
 $64x^2 - 8x - 42$

Multiplying Factors (H)

Find the product of each pair of factors.

1. $(-x + 8)(x + 3)$

11. $(4x + 4)(-4x + 8)$

2. $(-4x + 9)(7x + 9)$

12. $(8x - 9)(5x + 1)$

3. $(9x + 8)(-6x + 4)$

13. $(-2x + 3)(9x + 7)$

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

14. $(7x - 7)(-5x - 9)$

5. $(8x - 6)(-x - 6)$

15. $(-3x + 7)(3x + 9)$

6. $(-9x - 5)(4x - 3)$

16. $(-3x + 1)(2x + 9)$

7. $(7x + 4)(-9x - 6)$

17. $(-2x + 6)(-3x - 4)$

8. $(-2x + 2)(-9x - 4)$

18. $(4x - 9)(-4x + 9)$

9. $(-x + 9)(-x - 1)$

19. $(-5x + 5)(-8x - 1)$

10. $(-2x + 8)(-9x + 9)$

20. $(x - 8)(7x - 8)$

Multiplying Factors (H) Answers

Find the product of each pair of factors.

1. $(-x + 8)(x + 3)$
 $-x^2 + 5x + 24$

2. $(-4x + 9)(7x + 9)$
 $-28x^2 + 27x + 81$

3. $(9x + 8)(-6x + 4)$
 $-54x^2 - 12x + 32$

4. $(-3x + 4)(-4x - 4)$
 $12x^2 - 4x - 16$

5. $(8x - 6)(-x - 6)$
 $-8x^2 - 42x + 36$

6. $(-9x - 5)(4x - 3)$
 $-36x^2 + 7x + 15$

7. $(7x + 4)(-9x - 6)$
 $-63x^2 - 78x - 24$

8. $(-2x + 2)(-9x - 4)$
 $18x^2 - 10x - 8$

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

10. $(-2x + 8)(-9x + 9)$
 $18x^2 - 90x + 72$

11. $(4x + 4)(-4x + 8)$
 $-16x^2 + 16x + 32$

12. $(8x - 9)(5x + 1)$
 $40x^2 - 37x - 9$

13. $(-2x + 3)(9x + 7)$
 $-18x^2 + 13x + 21$

14. $(7x - 7)(-5x - 9)$
 $-35x^2 - 28x + 63$

15. $(-3x + 7)(3x + 9)$
 $-9x^2 - 6x + 63$

16. $(-3x + 1)(2x + 9)$
 $-6x^2 - 25x + 9$

17. $(-2x + 6)(-3x - 4)$
 $6x^2 - 10x - 24$

18. $(4x - 9)(-4x + 9)$
 $-16x^2 + 72x - 81$

19. $(-5x + 5)(-8x - 1)$
 $40x^2 - 35x - 5$

20. $(x - 8)(7x - 8)$
 $7x^2 - 64x + 64$

Multiplying Factors (I)

Find the product of each pair of factors.

1. $(-4x + 1)(-4x - 7)$

11. $(-6x - 7)(5x + 5)$

2. $(-8x - 4)(5x + 1)$

12. $(-2x + 4)(5x - 8)$

3. $(8x - 8)(6x - 1)$

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

4. $(4x - 3)(5x - 9)$

14. $(7x + 8)(9x - 7)$

5. $(-5x - 1)(3x + 3)$

15. $(5x + 9)(-2x + 3)$

6. $(6x + 4)(-5x - 1)$

16. $(3x - 2)(9x + 3)$

7. $(6x + 5)(x + 4)$

17. $(-7x + 2)(6x - 8)$

8. $(5x + 6)(2x - 4)$

18. $(2x - 8)(7x + 6)$

9. $(-4x + 2)(8x - 1)$

19. $(9x + 7)(x - 1)$

10. $(4x + 1)(-3x - 6)$

20. $(7x - 1)(-4x + 4)$

Multiplying Factors (I) Answers

Find the product of each pair of factors.

1. $(-4x + 1)(-4x - 7)$
 $16x^2 + 24x - 7$

2. $(-8x - 4)(5x + 1)$
 $-40x^2 - 28x - 4$

3. $(8x - 8)(6x - 1)$
 $48x^2 - 56x + 8$

4. $(4x - 3)(5x - 9)$
 $20x^2 - 51x + 27$

5. $(-5x - 1)(3x + 3)$
 $-15x^2 - 18x - 3$

6. $(6x + 4)(-5x - 1)$
 $-30x^2 - 26x - 4$

7. $(6x + 5)(x + 4)$
 $6x^2 + 29x + 20$

8. $(5x + 6)(2x - 4)$
 $10x^2 - 8x - 24$

9. $(-4x + 2)(8x - 1)$
 $-32x^2 + 20x - 2$

10. $(4x + 1)(-3x - 6)$
 $-12x^2 - 27x - 6$

11. $(-6x - 7)(5x + 5)$
 $-30x^2 - 65x - 35$

12. $(-2x + 4)(5x - 8)$
 $-10x^2 + 36x - 32$

13. $(-x + 4)(-5x - 5)$
 $5x^2 - 15x - 20$

14. $(7x + 8)(9x - 7)$
 $63x^2 + 23x - 56$

15. $(5x + 9)(-2x + 3)$
 $-10x^2 - 3x + 27$

16. $(3x - 2)(9x + 3)$
 $27x^2 - 9x - 6$

17. $(-7x + 2)(6x - 8)$
 $-42x^2 + 68x - 16$

18. $(2x - 8)(7x + 6)$
 $14x^2 - 44x - 48$

19. $(9x + 7)(x - 1)$
 $9x^2 - 2x - 7$

20. $(7x - 1)(-4x + 4)$
 $-28x^2 + 32x - 4$

Multiplying Factors (J)

Find the product of each pair of factors.

1. $(-2x - 6)(5x - 8)$

11. $(x + 1)(-9x - 9)$

2. $(-4x - 2)(-4x - 4)$

12. $(-6x - 5)(-x + 7)$

3. $(5x + 8)(-6x + 4)$

13. $(-9x + 7)(-4x + 7)$

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

14. $(-2x - 3)(-6x - 6)$

5. $(-3x + 9)(-x - 8)$

15. $(5x + 1)(-4x - 2)$

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

16. $(x + 9)(2x + 4)$

7. $(4x - 8)(4x + 6)$

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

8. $(-4x - 8)(-9x + 2)$

18. $(7x - 1)(6x + 8)$

9. $(-7x + 1)(-6x + 4)$

19. $(6x + 2)(9x + 3)$

10. $(6x + 1)(-6x + 3)$

20. $(6x - 7)(x - 8)$

Multiplying Factors (J) Answers

Find the product of each pair of factors.

1. $(-2x - 6)(5x - 8)$
 $-10x^2 - 14x + 48$

2. $(-4x - 2)(-4x - 4)$
 $16x^2 + 24x + 8$

3. $(5x + 8)(-6x + 4)$
 $-30x^2 - 28x + 32$

4. $(-4x + 6)(-4x - 4)$
 $16x^2 - 8x - 24$

5. $(-3x + 9)(-x - 8)$
 $3x^2 + 15x - 72$

6. $(5x + 2)(-3x + 7)$
 $-15x^2 + 29x + 14$

7. $(4x - 8)(4x + 6)$
 $16x^2 - 8x - 48$

8. $(-4x - 8)(-9x + 2)$
 $36x^2 + 64x - 16$

9. $(-7x + 1)(-6x + 4)$
 $42x^2 - 34x + 4$

10. $(6x + 1)(-6x + 3)$
 $-36x^2 + 12x + 3$

11. $(x + 1)(-9x - 9)$
 $-9x^2 - 18x - 9$

12. $(-6x - 5)(-x + 7)$
 $6x^2 - 37x - 35$

13. $(-9x + 7)(-4x + 7)$
 $36x^2 - 91x + 49$

14. $(-2x - 3)(-6x - 6)$
 $12x^2 + 30x + 18$

15. $(5x + 1)(-4x - 2)$
 $-20x^2 - 14x - 2$

16. $(x + 9)(2x + 4)$
 $2x^2 + 22x + 36$

17. $(x + 2)(-6x - 8)$
 $-6x^2 - 20x - 16$

18. $(7x - 1)(6x + 8)$
 $42x^2 + 50x - 8$

19. $(6x + 2)(9x + 3)$
 $54x^2 + 36x + 6$

20. $(6x - 7)(x - 8)$
 $6x^2 - 55x + 56$