

Multiplying Factors (A)

Find the product of each pair of factors.

$$1. \quad (2x - 2) (9x - 2)$$

$$11. \quad (2x - 5) (5x - 9)$$

$$2. \quad (4x - 7) (4x + 4)$$

$$12. \quad (3x - 4) (6x + 8)$$

$$3. \quad (7x + 1) (x + 9)$$

$$13. \quad (9x - 6) (8x + 8)$$

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

$$14. \quad (3x - 8) (2x + 1)$$

$$5. \quad (5x + 5) (2x + 3)$$

$$15. \quad (3x + 4) (2x + 8)$$

$$6. \quad (8x + 9) (9x - 7)$$

$$16. \quad (8x + 8) (6x + 4)$$

$$7. \quad (4x + 6) (4x - 7)$$

$$17. \quad (7x + 7) (9x - 9)$$

$$8. \quad (9x + 8) (7x + 2)$$

$$18. \quad (6x + 6) (6x - 5)$$

$$9. \quad (9x - 5) (6x - 9)$$

$$19. \quad (5x + 4) (6x + 9)$$

$$10. \quad (7x - 9) (3x - 8)$$

$$20. \quad (2x - 1) (9x - 2)$$

Multiplying Factors (A) Answers

Find the product of each pair of factors.

1. $(2x - 2)(9x - 2)$
 $18x^2 - 22x + 4$

11. $(2x - 5)(5x - 9)$
 $10x^2 - 43x + 45$

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

12. $(3x - 4)(6x + 8)$
 $18x^2 - 32$

3. $(7x + 1)(x + 9)$
 $7x^2 + 64x + 9$

13. $(9x - 6)(8x + 8)$
 $72x^2 + 24x - 48$

4. $(7x + 3)(2x - 9)$
 $14x^2 - 57x - 27$

14. $(3x - 8)(2x + 1)$
 $6x^2 - 13x - 8$

5. $(5x + 5)(2x + 3)$
 $10x^2 + 25x + 15$

15. $(3x + 4)(2x + 8)$
 $6x^2 + 32x + 32$

6. $(8x + 9)(9x - 7)$
 $72x^2 + 25x - 63$

16. $(8x + 8)(6x + 4)$
 $48x^2 + 80x + 32$

7. $(4x + 6)(4x - 7)$
 $16x^2 - 4x - 42$

17. $(7x + 7)(9x - 9)$
 $63x^2 - 63$

8. $(9x + 8)(7x + 2)$
 $63x^2 + 74x + 16$

18. $(6x + 6)(6x - 5)$
 $36x^2 + 6x - 30$

9. $(9x - 5)(6x - 9)$
 $54x^2 - 111x + 45$

19. $(5x + 4)(6x + 9)$
 $30x^2 + 69x + 36$

10. $(7x - 9)(3x - 8)$
 $21x^2 - 83x + 72$

20. $(2x - 1)(9x - 2)$
 $18x^2 - 13x + 2$

Multiplying Factors (B)

Find the product of each pair of factors.

$$1. \quad (2x - 9)(3x - 2)$$

$$11. \quad (6x - 1)(7x + 2)$$

$$2. \quad (4x - 6)(x - 6)$$

$$12. \quad (2x - 8)(6x - 6)$$

$$3. \quad (4x - 2)(9x - 7)$$

$$13. \quad (9x + 6)(2x + 8)$$

$$4. \quad (5x - 2)(9x + 7)$$

$$14. \quad (7x + 1)(x - 1)$$

$$5. \quad (8x + 1)(7x + 6)$$

$$15. \quad (6x - 6)(7x + 6)$$

$$6. \quad (5x + 8)(7x + 5)$$

$$16. \quad (3x - 4)(9x - 1)$$

$$7. \quad (5x - 2)(6x + 8)$$

$$17. \quad (9x + 2)(x + 6)$$

$$8. \quad (4x + 8)(3x + 6)$$

$$18. \quad (8x + 1)(6x - 4)$$

$$9. \quad (7x + 4)(5x + 6)$$

$$19. \quad (x + 1)(4x - 8)$$

$$10. \quad (9x + 9)(7x + 6)$$

$$20. \quad (2x - 7)(5x + 5)$$

Multiplying Factors (B) Answers

Find the product of each pair of factors.

1. $(2x - 9)(3x - 2)$
 $6x^2 - 31x + 18$

11. $(6x - 1)(7x + 2)$
 $42x^2 + 5x - 2$

2. $(4x - 6)(x - 6)$
 $4x^2 - 30x + 36$

12. $(2x - 8)(6x - 6)$
 $12x^2 - 60x + 48$

3. $(4x - 2)(9x - 7)$
 $36x^2 - 46x + 14$

13. $(9x + 6)(2x + 8)$
 $18x^2 + 84x + 48$

4. $(5x - 2)(9x + 7)$
 $45x^2 + 17x - 14$

14. $(7x + 1)(x - 1)$
 $7x^2 - 6x - 1$

5. $(8x + 1)(7x + 6)$
 $56x^2 + 55x + 6$

15. $(6x - 6)(7x + 6)$
 $42x^2 - 6x - 36$

6. $(5x + 8)(7x + 5)$
 $35x^2 + 81x + 40$

16. $(3x - 4)(9x - 1)$
 $27x^2 - 39x + 4$

7. $(5x - 2)(6x + 8)$
 $30x^2 + 28x - 16$

17. $(9x + 2)(x + 6)$
 $9x^2 + 56x + 12$

8. $(4x + 8)(3x + 6)$
 $12x^2 + 48x + 48$

18. $(8x + 1)(6x - 4)$
 $48x^2 - 26x - 4$

9. $(7x + 4)(5x + 6)$
 $35x^2 + 62x + 24$

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

10. $(9x + 9)(7x + 6)$
 $63x^2 + 117x + 54$

20. $(2x - 7)(5x + 5)$
 $10x^2 - 25x - 35$

Multiplying Factors (C)

Find the product of each pair of factors.

$$1. \quad (9x - 5) (5x - 9)$$

$$11. \quad (8x + 3) (4x + 1)$$

$$2. \quad (3x + 4) (x - 8)$$

$$12. \quad (3x + 8) (7x + 7)$$

$$3. \quad (2x - 8) (9x - 3)$$

$$13. \quad (8x - 2) (4x - 7)$$

$$4. \quad (3x + 5) (9x - 1)$$

$$14. \quad (7x + 7) (x - 5)$$

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

$$15. \quad (7x - 6) (3x + 3)$$

$$6. \quad (2x + 3) (5x - 3)$$

$$16. \quad (2x + 7) (9x - 5)$$

$$7. \quad (9x - 6) (x - 6)$$

$$17. \quad (4x - 2) (7x - 5)$$

$$8. \quad (2x + 1) (6x + 5)$$

$$18. \quad (5x + 8) (6x - 6)$$

$$9. \quad (5x + 2) (7x - 6)$$

$$19. \quad (8x + 2) (8x + 2)$$

$$10. \quad (6x + 4) (4x - 9)$$

$$20. \quad (5x + 9) (8x + 2)$$

Multiplying Factors (C) Answers

Find the product of each pair of factors.

1. $(9x - 5)(5x - 9)$
 $45x^2 - 106x + 45$

11. $(8x + 3)(4x + 1)$
 $32x^2 + 20x + 3$

2. $(3x + 4)(x - 8)$
 $3x^2 - 20x - 32$

12. $(3x + 8)(7x + 7)$
 $21x^2 + 77x + 56$

3. $(2x - 8)(9x - 3)$
 $18x^2 - 78x + 24$

13. $(8x - 2)(4x - 7)$
 $32x^2 - 64x + 14$

4. $(3x + 5)(9x - 1)$
 $27x^2 + 42x - 5$

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

5. $(7x + 9)(5x - 6)$
 $35x^2 + 3x - 54$

15. $(7x - 6)(3x + 3)$
 $21x^2 + 3x - 18$

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

16. $(2x + 7)(9x - 5)$
 $18x^2 + 53x - 35$

7. $(9x - 6)(x - 6)$
 $9x^2 - 60x + 36$

17. $(4x - 2)(7x - 5)$
 $28x^2 - 34x + 10$

8. $(2x + 1)(6x + 5)$
 $12x^2 + 16x + 5$

18. $(5x + 8)(6x - 6)$
 $30x^2 + 18x - 48$

9. $(5x + 2)(7x - 6)$
 $35x^2 - 16x - 12$

19. $(8x + 2)(8x + 2)$
 $64x^2 + 32x + 4$

10. $(6x + 4)(4x - 9)$
 $24x^2 - 38x - 36$

20. $(5x + 9)(8x + 2)$
 $40x^2 + 82x + 18$

Multiplying Factors (D)

Find the product of each pair of factors.

$$1. \quad (3x - 3)(8x - 8)$$

$$11. \quad (8x - 1)(x + 6)$$

$$2. \quad (9x + 8)(7x + 7)$$

$$12. \quad (4x - 4)(8x - 3)$$

$$3. \quad (7x + 1)(4x + 1)$$

$$13. \quad (2x - 8)(6x + 7)$$

$$4. \quad (5x + 5)(5x + 6)$$

$$14. \quad (x + 7)(7x - 7)$$

$$5. \quad (9x + 1)(8x + 8)$$

$$15. \quad (4x - 4)(8x - 7)$$

$$6. \quad (7x - 1)(5x + 8)$$

$$16. \quad (9x + 7)(2x + 2)$$

$$7. \quad (8x - 6)(9x + 1)$$

$$17. \quad (x + 8)(6x + 8)$$

$$8. \quad (8x - 2)(3x - 5)$$

$$18. \quad (7x + 2)(5x + 4)$$

$$9. \quad (3x + 3)(2x - 5)$$

$$19. \quad (3x + 8)(2x + 8)$$

$$10. \quad (2x - 8)(x - 5)$$

$$20. \quad (7x - 9)(9x + 2)$$

Multiplying Factors (D) Answers

Find the product of each pair of factors.

1. $(3x - 3)(8x - 8)$
 $24x^2 - 48x + 24$

11. $(8x - 1)(x + 6)$
 $8x^2 + 47x - 6$

2. $(9x + 8)(7x + 7)$
 $63x^2 + 119x + 56$

12. $(4x - 4)(8x - 3)$
 $32x^2 - 44x + 12$

3. $(7x + 1)(4x + 1)$
 $28x^2 + 11x + 1$

13. $(2x - 8)(6x + 7)$
 $12x^2 - 34x - 56$

4. $(5x + 5)(5x + 6)$
 $25x^2 + 55x + 30$

14. $(x + 7)(7x - 7)$
 $7x^2 + 42x - 49$

5. $(9x + 1)(8x + 8)$
 $72x^2 + 80x + 8$

15. $(4x - 4)(8x - 7)$
 $32x^2 - 60x + 28$

6. $(7x - 1)(5x + 8)$
 $35x^2 + 51x - 8$

16. $(9x + 7)(2x + 2)$
 $18x^2 + 32x + 14$

7. $(8x - 6)(9x + 1)$
 $72x^2 - 46x - 6$

17. $(x + 8)(6x + 8)$
 $6x^2 + 56x + 64$

8. $(8x - 2)(3x - 5)$
 $24x^2 - 46x + 10$

18. $(7x + 2)(5x + 4)$
 $35x^2 + 38x + 8$

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

19. $(3x + 8)(2x + 8)$
 $6x^2 + 40x + 64$

10. $(2x - 8)(x - 5)$
 $2x^2 - 18x + 40$

20. $(7x - 9)(9x + 2)$
 $63x^2 - 67x - 18$

Multiplying Factors (E)

Find the product of each pair of factors.

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

$$11. \quad (x - 5)(6x + 4)$$

$$2. \quad (8x - 4)(x - 6)$$

$$12. \quad (8x - 7)(x - 7)$$

$$3. \quad (x + 9)(9x - 4)$$

$$13. \quad (4x + 1)(x - 9)$$

$$4. \quad (3x + 2)(3x + 5)$$

$$14. \quad (9x + 9)(5x + 4)$$

$$5. \quad (4x + 5)(x - 6)$$

$$15. \quad (5x + 1)(8x + 4)$$

$$6. \quad (9x + 5)(5x + 4)$$

$$16. \quad (2x - 3)(2x + 8)$$

$$7. \quad (7x + 3)(4x - 6)$$

$$17. \quad (8x + 4)(4x - 5)$$

$$8. \quad (3x + 8)(5x - 6)$$

$$18. \quad (2x - 4)(4x + 2)$$

$$9. \quad (5x + 3)(2x - 3)$$

$$19. \quad (3x + 9)(4x + 9)$$

$$10. \quad (7x + 7)(8x + 3)$$

$$20. \quad (9x - 4)(6x - 3)$$

Multiplying Factors (E) Answers

Find the product of each pair of factors.

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

11. $(x - 5)(6x + 4)$
 $6x^2 - 26x - 20$

2. $(8x - 4)(x - 6)$
 $8x^2 - 52x + 24$

12. $(8x - 7)(x - 7)$
 $8x^2 - 63x + 49$

3. $(x + 9)(9x - 4)$
 $9x^2 + 77x - 36$

13. $(4x + 1)(x - 9)$
 $4x^2 - 35x - 9$

4. $(3x + 2)(3x + 5)$
 $9x^2 + 21x + 10$

14. $(9x + 9)(5x + 4)$
 $45x^2 + 81x + 36$

5. $(4x + 5)(x - 6)$
 $4x^2 - 19x - 30$

15. $(5x + 1)(8x + 4)$
 $40x^2 + 28x + 4$

6. $(9x + 5)(5x + 4)$
 $45x^2 + 61x + 20$

16. $(2x - 3)(2x + 8)$
 $4x^2 + 10x - 24$

7. $(7x + 3)(4x - 6)$
 $28x^2 - 30x - 18$

17. $(8x + 4)(4x - 5)$
 $32x^2 - 24x - 20$

8. $(3x + 8)(5x - 6)$
 $15x^2 + 22x - 48$

18. $(2x - 4)(4x + 2)$
 $8x^2 - 12x - 8$

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

19. $(3x + 9)(4x + 9)$
 $12x^2 + 63x + 81$

10. $(7x + 7)(8x + 3)$
 $56x^2 + 77x + 21$

20. $(9x - 4)(6x - 3)$
 $54x^2 - 51x + 12$

Multiplying Factors (F)

Find the product of each pair of factors.

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

$$11. \quad (3x - 4) (8x - 2)$$

$$2. \quad (8x - 3) (8x - 2)$$

$$12. \quad (9x + 8) (3x - 7)$$

$$3. \quad (5x + 9) (5x - 9)$$

$$13. \quad (3x + 5) (2x + 7)$$

$$4. \quad (9x - 2) (7x + 5)$$

$$14. \quad (7x - 6) (2x + 3)$$

$$5. \quad (8x + 7) (3x - 9)$$

$$15. \quad (3x - 9) (x + 9)$$

$$6. \quad (8x + 8) (7x - 1)$$

$$16. \quad (2x - 3) (3x - 4)$$

$$7. \quad (8x - 3) (6x - 9)$$

$$17. \quad (9x + 3) (6x + 5)$$

$$8. \quad (5x + 4) (9x + 8)$$

$$18. \quad (7x - 5) (9x + 4)$$

$$9. \quad (3x - 8) (3x - 7)$$

$$19. \quad (x - 3) (5x - 3)$$

$$10. \quad (x + 7) (2x + 4)$$

$$20. \quad (8x - 3) (x + 7)$$

Multiplying Factors (F) Answers

Find the product of each pair of factors.

1. $(3x - 6)(8x - 1)$
 $24x^2 - 51x + 6$

11. $(3x - 4)(8x - 2)$
 $24x^2 - 38x + 8$

2. $(8x - 3)(8x - 2)$
 $64x^2 - 40x + 6$

12. $(9x + 8)(3x - 7)$
 $27x^2 - 39x - 56$

3. $(5x + 9)(5x - 9)$
 $25x^2 - 81$

13. $(3x + 5)(2x + 7)$
 $6x^2 + 31x + 35$

4. $(9x - 2)(7x + 5)$
 $63x^2 + 31x - 10$

14. $(7x - 6)(2x + 3)$
 $14x^2 + 9x - 18$

5. $(8x + 7)(3x - 9)$
 $24x^2 - 51x - 63$

15. $(3x - 9)(x + 9)$
 $3x^2 + 18x - 81$

6. $(8x + 8)(7x - 1)$
 $56x^2 + 48x - 8$

16. $(2x - 3)(3x - 4)$
 $6x^2 - 17x + 12$

7. $(8x - 3)(6x - 9)$
 $48x^2 - 90x + 27$

17. $(9x + 3)(6x + 5)$
 $54x^2 + 63x + 15$

8. $(5x + 4)(9x + 8)$
 $45x^2 + 76x + 32$

18. $(7x - 5)(9x + 4)$
 $63x^2 - 17x - 20$

9. $(3x - 8)(3x - 7)$
 $9x^2 - 45x + 56$

19. $(x - 3)(5x - 3)$
 $5x^2 - 18x + 9$

10. $(x + 7)(2x + 4)$
 $2x^2 + 18x + 28$

20. $(8x - 3)(x + 7)$
 $8x^2 + 53x - 21$

Multiplying Factors (G)

Find the product of each pair of factors.

$$1. \quad (x - 9)(5x - 7)$$

$$11. \quad (6x - 5)(6x + 5)$$

$$2. \quad (4x + 9)(2x - 6)$$

$$12. \quad (6x - 5)(6x + 3)$$

$$3. \quad (4x - 1)(4x + 3)$$

$$13. \quad (4x - 5)(8x + 2)$$

$$4. \quad (3x + 8)(2x + 7)$$

$$14. \quad (8x - 7)(7x + 6)$$

$$5. \quad (9x + 6)(2x + 2)$$

$$15. \quad (5x - 5)(8x + 5)$$

$$6. \quad (5x + 3)(4x - 7)$$

$$16. \quad (5x - 5)(5x + 1)$$

$$7. \quad (8x + 4)(2x + 3)$$

$$17. \quad (8x - 3)(x + 7)$$

$$8. \quad (4x + 7)(5x + 3)$$

$$18. \quad (4x - 3)(3x - 8)$$

$$9. \quad (8x + 1)(9x - 3)$$

$$19. \quad (7x - 4)(8x - 3)$$

$$10. \quad (4x + 8)(x + 2)$$

$$20. \quad (6x + 8)(6x - 5)$$

Multiplying Factors (G) Answers

Find the product of each pair of factors.

1. $(x - 9)(5x - 7)$
 $5x^2 - 52x + 63$

11. $(6x - 5)(6x + 5)$
 $36x^2 - 25$

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

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

3. $(4x - 1)(4x + 3)$
 $16x^2 + 8x - 3$

13. $(4x - 5)(8x + 2)$
 $32x^2 - 32x - 10$

4. $(3x + 8)(2x + 7)$
 $6x^2 + 37x + 56$

14. $(8x - 7)(7x + 6)$
 $56x^2 - x - 42$

5. $(9x + 6)(2x + 2)$
 $18x^2 + 30x + 12$

15. $(5x - 5)(8x + 5)$
 $40x^2 - 15x - 25$

6. $(5x + 3)(4x - 7)$
 $20x^2 - 23x - 21$

16. $(5x - 5)(5x + 1)$
 $25x^2 - 20x - 5$

7. $(8x + 4)(2x + 3)$
 $16x^2 + 32x + 12$

17. $(8x - 3)(x + 7)$
 $8x^2 + 53x - 21$

8. $(4x + 7)(5x + 3)$
 $20x^2 + 47x + 21$

18. $(4x - 3)(3x - 8)$
 $12x^2 - 41x + 24$

9. $(8x + 1)(9x - 3)$
 $72x^2 - 15x - 3$

19. $(7x - 4)(8x - 3)$
 $56x^2 - 53x + 12$

10. $(4x + 8)(x + 2)$
 $4x^2 + 16x + 16$

20. $(6x + 8)(6x - 5)$
 $36x^2 + 18x - 40$

Multiplying Factors (H)

Find the product of each pair of factors.

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

$$11. \quad (5x - 1)(5x + 9)$$

$$2. \quad (2x + 1)(9x - 8)$$

$$12. \quad (9x + 4)(2x + 7)$$

$$3. \quad (7x - 9)(3x - 3)$$

$$13. \quad (8x - 3)(x + 4)$$

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

$$14. \quad (4x - 9)(5x + 8)$$

$$5. \quad (7x + 6)(x + 2)$$

$$15. \quad (4x + 1)(7x - 5)$$

$$6. \quad (9x - 6)(3x + 5)$$

$$16. \quad (5x - 2)(x - 2)$$

$$7. \quad (7x - 6)(8x + 9)$$

$$17. \quad (9x + 9)(2x - 5)$$

$$8. \quad (4x - 2)(x + 3)$$

$$18. \quad (5x - 1)(4x - 1)$$

$$9. \quad (2x - 4)(6x + 6)$$

$$19. \quad (4x + 3)(x - 2)$$

$$10. \quad (6x - 7)(4x - 2)$$

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

Multiplying Factors (H) Answers

Find the product of each pair of factors.

1. $(8x + 7)(7x - 5)$
 $56x^2 + 9x - 35$

11. $(5x - 1)(5x + 9)$
 $25x^2 + 40x - 9$

2. $(2x + 1)(9x - 8)$
 $18x^2 - 7x - 8$

12. $(9x + 4)(2x + 7)$
 $18x^2 + 71x + 28$

3. $(7x - 9)(3x - 3)$
 $21x^2 - 48x + 27$

13. $(8x - 3)(x + 4)$
 $8x^2 + 29x - 12$

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

14. $(4x - 9)(5x + 8)$
 $20x^2 - 13x - 72$

5. $(7x + 6)(x + 2)$
 $7x^2 + 20x + 12$

15. $(4x + 1)(7x - 5)$
 $28x^2 - 13x - 5$

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

16. $(5x - 2)(x - 2)$
 $5x^2 - 12x + 4$

7. $(7x - 6)(8x + 9)$
 $56x^2 + 15x - 54$

17. $(9x + 9)(2x - 5)$
 $18x^2 - 27x - 45$

8. $(4x - 2)(x + 3)$
 $4x^2 + 10x - 6$

18. $(5x - 1)(4x - 1)$
 $20x^2 - 9x + 1$

9. $(2x - 4)(6x + 6)$
 $12x^2 - 12x - 24$

19. $(4x + 3)(x - 2)$
 $4x^2 - 5x - 6$

10. $(6x - 7)(4x - 2)$
 $24x^2 - 40x + 14$

20. $(7x - 4)(7x + 1)$
 $49x^2 - 21x - 4$

Multiplying Factors (I)

Find the product of each pair of factors.

$$1. \quad (5x + 5)(6x + 9)$$

$$11. \quad (4x - 3)(3x - 9)$$

$$2. \quad (3x + 1)(2x - 4)$$

$$12. \quad (3x - 1)(2x + 2)$$

$$3. \quad (2x + 4)(6x + 8)$$

$$13. \quad (9x + 9)(3x - 5)$$

$$4. \quad (4x - 5)(6x + 5)$$

$$14. \quad (8x - 6)(6x - 3)$$

$$5. \quad (8x + 4)(9x + 1)$$

$$15. \quad (4x - 2)(2x + 5)$$

$$6. \quad (5x - 9)(6x - 8)$$

$$16. \quad (2x + 9)(4x + 7)$$

$$7. \quad (2x - 7)(2x - 6)$$

$$17. \quad (7x - 3)(2x - 3)$$

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

$$18. \quad (8x - 1)(x - 4)$$

$$9. \quad (2x - 4)(x - 8)$$

$$19. \quad (9x - 2)(3x + 5)$$

$$10. \quad (8x + 3)(2x - 7)$$

$$20. \quad (7x + 1)(8x - 5)$$

Multiplying Factors (I) Answers

Find the product of each pair of factors.

1. $(5x + 5)(6x + 9)$
 $30x^2 + 75x + 45$

11. $(4x - 3)(3x - 9)$
 $12x^2 - 45x + 27$

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

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

3. $(2x + 4)(6x + 8)$
 $12x^2 + 40x + 32$

13. $(9x + 9)(3x - 5)$
 $27x^2 - 18x - 45$

4. $(4x - 5)(6x + 5)$
 $24x^2 - 10x - 25$

14. $(8x - 6)(6x - 3)$
 $48x^2 - 60x + 18$

5. $(8x + 4)(9x + 1)$
 $72x^2 + 44x + 4$

15. $(4x - 2)(2x + 5)$
 $8x^2 + 16x - 10$

6. $(5x - 9)(6x - 8)$
 $30x^2 - 94x + 72$

16. $(2x + 9)(4x + 7)$
 $8x^2 + 50x + 63$

7. $(2x - 7)(2x - 6)$
 $4x^2 - 26x + 42$

17. $(7x - 3)(2x - 3)$
 $14x^2 - 27x + 9$

8. $(9x - 3)(4x - 4)$
 $36x^2 - 48x + 12$

18. $(8x - 1)(x - 4)$
 $8x^2 - 33x + 4$

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

19. $(9x - 2)(3x + 5)$
 $27x^2 + 39x - 10$

10. $(8x + 3)(2x - 7)$
 $16x^2 - 50x - 21$

20. $(7x + 1)(8x - 5)$
 $56x^2 - 27x - 5$

Multiplying Factors (J)

Find the product of each pair of factors.

$$1. \quad (2x + 1) (2x - 5)$$

$$11. \quad (3x - 3) (2x - 4)$$

$$2. \quad (2x - 3) (4x - 2)$$

$$12. \quad (6x + 3) (x + 2)$$

$$3. \quad (4x - 1) (2x + 6)$$

$$13. \quad (9x + 7) (7x - 7)$$

$$4. \quad (2x - 8) (x + 5)$$

$$14. \quad (4x + 4) (4x - 6)$$

$$5. \quad (7x - 6) (4x - 1)$$

$$15. \quad (3x - 2) (3x - 7)$$

$$6. \quad (9x - 2) (5x + 9)$$

$$16. \quad (2x - 3) (3x + 1)$$

$$7. \quad (8x + 7) (2x + 4)$$

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

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

$$18. \quad (x - 7) (x - 5)$$

$$9. \quad (5x - 1) (6x - 1)$$

$$19. \quad (3x - 4) (5x + 3)$$

$$10. \quad (7x - 5) (2x + 8)$$

$$20. \quad (5x + 8) (8x + 4)$$

Multiplying Factors (J) Answers

Find the product of each pair of factors.

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

11. $(3x - 3)(2x - 4)$
 $6x^2 - 18x + 12$

2. $(2x - 3)(4x - 2)$
 $8x^2 - 16x + 6$

12. $(6x + 3)(x + 2)$
 $6x^2 + 15x + 6$

3. $(4x - 1)(2x + 6)$
 $8x^2 + 22x - 6$

13. $(9x + 7)(7x - 7)$
 $63x^2 - 14x - 49$

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

14. $(4x + 4)(4x - 6)$
 $16x^2 - 8x - 24$

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

15. $(3x - 2)(3x - 7)$
 $9x^2 - 27x + 14$

6. $(9x - 2)(5x + 9)$
 $45x^2 + 71x - 18$

16. $(2x - 3)(3x + 1)$
 $6x^2 - 7x - 3$

7. $(8x + 7)(2x + 4)$
 $16x^2 + 46x + 28$

17. $(5x - 2)(2x + 8)$
 $10x^2 + 36x - 16$

8. $(x + 4)(6x - 2)$
 $6x^2 + 22x - 8$

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

9. $(5x - 1)(6x - 1)$
 $30x^2 - 11x + 1$

19. $(3x - 4)(5x + 3)$
 $15x^2 - 11x - 12$

10. $(7x - 5)(2x + 8)$
 $14x^2 + 46x - 40$

20. $(5x + 8)(8x + 4)$
 $40x^2 + 84x + 32$