

# Adding & Subtracting Linear Expressions (A)

Simplify each expression.

1.  $-3(6v - 6) - 5(-8v + 3)$

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

3.  $-4(-4m - 1) - 4(7m + 3)$

4.  $(-3q + 3) + 7(8q + 1)$

5.  $-7(-4b - 9) + 9(3b + 3)$

6.  $-3(2) - 6(p + 8)$

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

8.  $3(2c + 1) + 2(9c - 1)$

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

10.  $5(9d - 2) + 6(5d - 2)$

# Adding & Subtracting Linear Expressions (A) Answers

Simplify each expression.

1.  $-3(6v - 6) - 5(-8v + 3)$   
 $22v + 3$

2.  $3(3m - 1) + 5(6m + 7)$   
 $39m + 32$

3.  $-4(-4m - 1) - 4(7m + 3)$   
 $-12m - 8$

4.  $(-3q + 3) + 7(8q + 1)$   
 $53q + 10$

5.  $-7(-4b - 9) + 9(3b + 3)$   
 $55b + 90$

6.  $-3(2) - 6(p + 8)$   
 $-6p - 54$

7.  $6(9c - 4) + 9(c - 1)$   
 $63c - 33$

8.  $3(2c + 1) + 2(9c - 1)$   
 $24c + 1$

9.  $-9(-4n + 3) - 3(5n + 6)$   
 $21n - 45$

10.  $5(9d - 2) + 6(5d - 2)$   
 $75d - 22$

# Adding & Subtracting Linear Expressions (B)

Simplify each expression.

1.  $-4(6w + 1) + 7(-w - 2)$

2.  $6(4f - 2) + 6(9f + 6)$

3.  $4(-9g - 9) - 4(-5g + 9)$

4.  $5(4s + 4) - 6(4s - 4)$

5.  $4(-7) - 8(9f + 2)$

6.  $3(-8t - 4) - 4(-6t)$

7.  $-9(-4h - 4) + 5(6h - 3)$

8.  $-7(4q - 3) - 8(-7q - 3)$

9.  $5(6z + 4) - 5(3z - 1)$

10.  $6(-6p + 4) - 6(6p - 7)$

# Adding & Subtracting Linear Expressions (B) Answers

Simplify each expression.

1.  $-4(6w + 1) + 7(-w - 2)$   
 $-31w - 18$

2.  $6(4f - 2) + 6(9f + 6)$   
 $78f + 24$

3.  $4(-9g - 9) - 4(-5g + 9)$   
 $-16g - 72$

4.  $5(4s + 4) - 6(4s - 4)$   
 $-4s + 44$

5.  $4(-7) - 8(9f + 2)$   
 $-72f - 44$

6.  $3(-8t - 4) - 4(-6t)$   
 $-12$

7.  $-9(-4h - 4) + 5(6h - 3)$   
 $66h + 21$

8.  $-7(4q - 3) - 8(-7q - 3)$   
 $28q + 45$

9.  $5(6z + 4) - 5(3z - 1)$   
 $15z + 25$

10.  $6(-6p + 4) - 6(6p - 7)$   
 $-72p + 66$

# Adding & Subtracting Linear Expressions (C)

Simplify each expression.

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

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

3.  $-8(-9h + 4) + 3(-3h + 2)$

4.  $5(m - 7) - 4(5m + 3)$

5.  $-4(4x + 7) - 3(8x + 9)$

6.  $-3(-3w + 9) - 4(-7w - 3)$

7.  $4(4b + 4) - 2(-b + 6)$

8.  $-6(-7f - 1) + 2(-7f - 7)$

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

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

# Adding & Subtracting Linear Expressions (C) Answers

Simplify each expression.

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

$6h - 24$

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

$-21q + 41$

3.  $-8(-9h + 4) + 3(-3h + 2)$

$63h - 26$

4.  $5(m - 7) - 4(5m + 3)$

$-15m - 47$

5.  $-4(4x + 7) - 3(8x + 9)$

$-40x - 55$

6.  $-3(-3w + 9) - 4(-7w - 3)$

$37w - 15$

7.  $4(4b + 4) - 2(-b + 6)$

$18b + 4$

8.  $-6(-7f - 1) + 2(-7f - 7)$

$28f - 8$

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

$-45x + 55$

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

$-40d - 28$

# Adding & Subtracting Linear Expressions (D)

Simplify each expression.

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

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

3.  $-(s - 3) - 7(5s - 8)$

4.  $7(-9m - 6) - 8(-3m - 7)$

5.  $-2(-4r + 7) + 9(4r + 4)$

6.  $9(7z + 7) + 9(-4z + 3)$

7.  $-5(1) + 7(8z - 2)$

8.  $4(-2s - 3) + 3(-3s - 3)$

9.  $-9(6d + 5) + 5(d - 3)$

10.  $-(-4t + 2) + 8(-5t + 3)$

# Adding & Subtracting Linear Expressions (D) Answers

Simplify each expression.

1.  $-7(-6w - 5) + 5(-2w - 3)$   
 $32w + 20$

2.  $-5(-5d - 7) + 6(4d - 3)$   
 $49d + 17$

3.  $-(s - 3) - 7(5s - 8)$   
 $-36s + 59$

4.  $7(-9m - 6) - 8(-3m - 7)$   
 $-39m + 14$

5.  $-2(-4r + 7) + 9(4r + 4)$   
 $44r + 22$

6.  $9(7z + 7) + 9(-4z + 3)$   
 $27z + 90$

7.  $-5(1) + 7(8z - 2)$   
 $56z - 19$

8.  $4(-2s - 3) + 3(-3s - 3)$   
 $-17s - 21$

9.  $-9(6d + 5) + 5(d - 3)$   
 $-49d - 60$

10.  $-(-4t + 2) + 8(-5t + 3)$   
 $-36t + 22$



# Adding & Subtracting Linear Expressions (E)

Simplify each expression.

1.  $4(7m + 4) + 3(-9m + 4)$

2.  $5(2k + 5) - 2(5k)$

3.  $-5(2y + 9) - 8(-9y - 2)$

4.  $-5(7k + 6) + 9(7k - 8)$

5.  $9(h + 9) - 2(-6h - 8)$

6.  $-2(2n - 4) - 8(-n - 8)$

7.  $5(-8w - 2) + 8(-3w - 4)$

8.  $4(6z + 9) - 6(-5z + 9)$

9.  $-8(-8q + 1) - 4(-9q - 8)$

10.  $3(2r - 7) + 7(6r)$

# Adding & Subtracting Linear Expressions (E) Answers

Simplify each expression.

1.  $4(7m + 4) + 3(-9m + 4)$   
 $m + 28$

2.  $5(2k + 5) - 2(5k)$   
 $25$

3.  $-5(2y + 9) - 8(-9y - 2)$   
 $62y - 29$

4.  $-5(7k + 6) + 9(7k - 8)$   
 $28k - 102$

5.  $9(h + 9) - 2(-6h - 8)$   
 $21h + 97$

6.  $-2(2n - 4) - 8(-n - 8)$   
 $4n + 72$

7.  $5(-8w - 2) + 8(-3w - 4)$   
 $-64w - 42$

8.  $4(6z + 9) - 6(-5z + 9)$   
 $54z - 18$

9.  $-8(-8q + 1) - 4(-9q - 8)$   
 $100q + 24$

10.  $3(2r - 7) + 7(6r)$   
 $48r - 21$

# Adding & Subtracting Linear Expressions (F)

Simplify each expression.

1.  $9(2g + 6) + 6(-9g - 2)$

2.  $-4(-5b - 1) - 9(6b - 8)$

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

4.  $-8(4b - 5) - 5(-3b - 5)$

5.  $4(7w - 3) + 4(-7w + 1)$

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

7.  $2(7n - 1) - 9(-6n - 7)$

8.  $8(t - 5) - 8(3t + 3)$

9.  $(2v + 6) + 4(v + 2)$

10.  $-7(5r + 6) - 8(-9r + 6)$

# Adding & Subtracting Linear Expressions (F) Answers

Simplify each expression.

1.  $9(2g + 6) + 6(-9g - 2)$   
 $-36g + 42$

2.  $-4(-5b - 1) - 9(6b - 8)$   
 $-34b + 76$

3.  $3(-2y - 5) - 2(-5y + 8)$   
 $4y - 31$

4.  $-8(4b - 5) - 5(-3b - 5)$   
 $-17b + 65$

5.  $4(7w - 3) + 4(-7w + 1)$   
 $-8$

6.  $-(-7p - 5) + 6(-2p + 2)$   
 $-5p + 17$

7.  $2(7n - 1) - 9(-6n - 7)$   
 $68n + 61$

8.  $8(t - 5) - 8(3t + 3)$   
 $-16t - 64$

9.  $(2v + 6) + 4(v + 2)$   
 $6v + 14$

10.  $-7(5r + 6) - 8(-9r + 6)$   
 $37r - 90$

# Adding & Subtracting Linear Expressions (G)

Simplify each expression.

1.  $2(9a + 7) + 8(-5a + 6)$

2.  $-7(-8w + 4) + 3(-9w + 5)$

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

4.  $-6(-9r - 4) - 8(r + 4)$

5.  $7(-9m + 8) + 4(-m + 8)$

6.  $-9(-c + 1) + 4(-5c + 7)$

7.  $-2(4g - 6) + 6(9g - 3)$

8.  $3(-6x + 4) + 9(-6x + 2)$

9.  $-3(-x - 3) - 5(2x - 4)$

10.  $5(6v + 6) - 6(7v + 4)$

# Adding & Subtracting Linear Expressions (G) Answers

Simplify each expression.

1.  $2(9a + 7) + 8(-5a + 6)$   
 $-22a + 62$

2.  $-7(-8w + 4) + 3(-9w + 5)$   
 $29w - 13$

3.  $-4(2q - 3) + 2(-7q + 4)$   
 $-22q + 20$

4.  $-6(-9r - 4) - 8(r + 4)$   
 $46r - 8$

5.  $7(-9m + 8) + 4(-m + 8)$   
 $-67m + 88$

6.  $-9(-c + 1) + 4(-5c + 7)$   
 $-11c + 19$

7.  $-2(4g - 6) + 6(9g - 3)$   
 $46g - 6$

8.  $3(-6x + 4) + 9(-6x + 2)$   
 $-72x + 30$

9.  $-3(-x - 3) - 5(2x - 4)$   
 $-7x + 29$

10.  $5(6v + 6) - 6(7v + 4)$   
 $-12v + 6$

# Adding & Subtracting Linear Expressions (H)

Simplify each expression.

1.  $7(-9s - 3) - 3(-4s + 7)$

2.  $6(4a + 1) - 7(2a + 9)$

3.  $8(-4n + 5) + 6(9n - 6)$

4.  $3(-4s - 7) - 6(-7s - 7)$

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

6.  $(-6m + 2) - 5(-7m + 1)$

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

8.  $-9(-2g - 7) + 4(-8g - 3)$

9.  $6(-3m - 2) - 5(-9m + 8)$

10.  $2(3y - 8) - 3(5y + 9)$

# Adding & Subtracting Linear Expressions (H) Answers

Simplify each expression.

1.  $7(-9s - 3) - 3(-4s + 7)$   
 $-51s - 42$

2.  $6(4a + 1) - 7(2a + 9)$   
 $10a - 57$

3.  $8(-4n + 5) + 6(9n - 6)$   
 $22n + 4$

4.  $3(-4s - 7) - 6(-7s - 7)$   
 $30s + 21$

5.  $-(-4r - 2) + 8(6r - 8)$   
 $52r - 62$

6.  $(-6m + 2) - 5(-7m + 1)$   
 $29m - 3$

7.  $3(g + 4) - 2(-7g - 4)$   
 $17g + 20$

8.  $-9(-2g - 7) + 4(-8g - 3)$   
 $-14g + 51$

9.  $6(-3m - 2) - 5(-9m + 8)$   
 $27m - 52$

10.  $2(3y - 8) - 3(5y + 9)$   
 $-9y - 43$



# Adding & Subtracting Linear Expressions (I)

Simplify each expression.

1.  $2(3s + 8) + 2(7s + 1)$

2.  $3(5w - 5) + 4(5w - 2)$

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

4.  $3(-6b - 3) - 3(b + 2)$

5.  $-5(-6d - 8) - 7(-4d - 3)$

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

7.  $-9(2c - 9) - 5(4c - 8)$

8.  $6(-8m - 6) - 8(1)$

9.  $-4(f + 6) + 7(-3f - 4)$

10.  $(-9r + 6) + 2(-6r + 2)$

# Adding & Subtracting Linear Expressions (I) Answers

Simplify each expression.

1.  $2(3s + 8) + 2(7s + 1)$   
 $20s + 18$

2.  $3(5w - 5) + 4(5w - 2)$   
 $35w - 23$

3.  $6(7k + 2) + 4(4k - 5)$   
 $58k - 8$

4.  $3(-6b - 3) - 3(b + 2)$   
 $-21b - 15$

5.  $-5(-6d - 8) - 7(-4d - 3)$   
 $58d + 61$

6.  $-4(4r - 5) + 8(3r - 5)$   
 $8r - 20$

7.  $-9(2c - 9) - 5(4c - 8)$   
 $-38c + 121$

8.  $6(-8m - 6) - 8(1)$   
 $-48m - 44$

9.  $-4(f + 6) + 7(-3f - 4)$   
 $-25f - 52$

10.  $(-9r + 6) + 2(-6r + 2)$   
 $-21r + 10$

# Adding & Subtracting Linear Expressions (J)

Simplify each expression.

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

2.  $-9(-9f - 3) + 4(3f + 6)$

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

4.  $-5(-4s - 4) - 4(-4s - 7)$

5.  $-3(-9y - 1) + 6(-y + 2)$

6.  $-9(-3x + 5) + 8(-2x + 2)$

7.  $-6(8r + 9) + 9(9r - 8)$

8.  $-9(7z - 5) + 6(-7z + 1)$

9.  $6(-4b + 7) - 3(-2b + 2)$

10.  $8(9f + 7) - 4(5f + 3)$

# Adding & Subtracting Linear Expressions (J) Answers

Simplify each expression.

1.  $(7h - 8) - 7(-8h - 4)$   
 $63h + 20$

2.  $-9(-9f - 3) + 4(3f + 6)$   
 $93f + 51$

3.  $5(-8h + 3) - 5(3h + 2)$   
 $-55h + 5$

4.  $-5(-4s - 4) - 4(-4s - 7)$   
 $36s + 48$

5.  $-3(-9y - 1) + 6(-y + 2)$   
 $21y + 15$

6.  $-9(-3x + 5) + 8(-2x + 2)$   
 $11x - 29$

7.  $-6(8r + 9) + 9(9r - 8)$   
 $33r - 126$

8.  $-9(7z - 5) + 6(-7z + 1)$   
 $-105z + 51$

9.  $6(-4b + 7) - 3(-2b + 2)$   
 $-18b + 36$

10.  $8(9f + 7) - 4(5f + 3)$   
 $52f + 44$