

# Adding Linear Expressions (A)

Simplify each expression.

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

2.  $6(6n + 2) + 9(-8n - 1)$

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

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

5.  $-2(2b + 5) + 3(7b - 7)$

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

7.  $2(6q + 6) + 3(4q + 6)$

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

9.  $7(2t - 2) + 2(-5t - 1)$

10.  $(2c + 1) + 8(-5c + 2)$

# Adding Linear Expressions (A) Answers

Simplify each expression.

1.  $-3(3h + 1) + 4(-2h - 4)$   
 $-17h - 19$

2.  $6(6n + 2) + 9(-8n - 1)$   
 $-36n + 3$

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

4.  $-3(5c + 9) + 6(3c - 9)$   
 $3c - 81$

5.  $-2(2b + 5) + 3(7b - 7)$   
 $17b - 31$

6.  $9(8y + 6) + 2(-8y + 5)$   
 $56y + 64$

7.  $2(6q + 6) + 3(4q + 6)$   
 $24q + 30$

8.  $-6(-4p - 8) + 9(-4p - 8)$   
 $-12p - 24$

9.  $7(2t - 2) + 2(-5t - 1)$   
 $4t - 16$

10.  $(2c + 1) + 8(-5c + 2)$   
 $-38c + 17$

# Adding Linear Expressions (B)

Simplify each expression.

1.  $6(-z + 3) + 8(-3z + 6)$

2.  $-4(8f + 6) + 8(-f + 3)$

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

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

5.  $-2(6d + 3) + 5(5d - 1)$

6.  $-9(-6a + 2) + 3(-a + 3)$

7.  $4(-8m + 9) + 7(-2m + 1)$

8.  $(-2g + 4) + 5(7g - 1)$

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

10.  $-7(-6d - 9) + 9(-9d - 1)$

# Adding Linear Expressions (B) Answers

Simplify each expression.

1.  $6(-z + 3) + 8(-3z + 6)$   
 $-30z + 66$

2.  $-4(8f + 6) + 8(-f + 3)$   
 $-40f$

3.  $-3(-2w - 4) + 8(-7w - 5)$   
 $-50w - 28$

4.  $3(-3y - 7) + 4(-9y - 4)$   
 $-45y - 37$

5.  $-2(6d + 3) + 5(5d - 1)$   
 $13d - 11$

6.  $-9(-6a + 2) + 3(-a + 3)$   
 $51a - 9$

7.  $4(-8m + 9) + 7(-2m + 1)$   
 $-46m + 43$

8.  $(-2g + 4) + 5(7g - 1)$   
 $33g - 1$

9.  $7(-4n + 6) + 6(n + 3)$   
 $-22n + 60$

10.  $-7(-6d - 9) + 9(-9d - 1)$   
 $-39d + 54$

# Adding Linear Expressions (C)

Simplify each expression.

1.  $6(-7d - 1) + 4(8d - 3)$

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

3.  $3(4w - 9) + 8(9w - 4)$

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

5.  $5(-y + 1) + 3(-9y + 7)$

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

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

8.  $9(-9p + 7) + 5(7p + 9)$

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

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

# Adding Linear Expressions (C) Answers

Simplify each expression.

1.  $6(-7d - 1) + 4(8d - 3)$   
 $-10d - 18$

2.  $3(s - 8) + 3(3s - 3)$   
 $12s - 33$

3.  $3(4w - 9) + 8(9w - 4)$   
 $84w - 59$

4.  $-2(6r - 3) + 2(6r + 6)$   
 $18$

5.  $5(-y + 1) + 3(-9y + 7)$   
 $-32y + 26$

6.  $9(3) + 8(-8h - 8)$   
 $-64h - 37$

7.  $-7(8s - 1) + 3(3s + 7)$   
 $-47s + 28$

8.  $9(-9p + 7) + 5(7p + 9)$   
 $-46p + 108$

9.  $-8(7c - 8) + 7(7c - 2)$   
 $-7c + 50$

10.  $3(-3k - 5) + 4(-9k + 7)$   
 $-45k + 13$

# Adding Linear Expressions (D)

Simplify each expression.

1.  $-3(9n - 9) + 5(2n + 1)$

2.  $-(s + 2) + 7(-6s - 9)$

3.  $-7(7g + 3) + 2(g + 1)$

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

5.  $-3(-6) + 5(n - 7)$

6.  $-4(3a - 7) + 3(-8a - 5)$

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

8.  $-4(-7c + 4) + 9(7c + 8)$

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

10.  $(-s - 4) + 2(-5s + 8)$

# Adding Linear Expressions (D) Answers

Simplify each expression.

1.  $-3(9n - 9) + 5(2n + 1)$   
 $-17n + 32$

2.  $-(s + 2) + 7(-6s - 9)$   
 $-43s - 65$

3.  $-7(7g + 3) + 2(g + 1)$   
 $-47g - 19$

4.  $-6(5h - 4) + 8(-2h - 4)$   
 $-46h - 8$

5.  $-3(-6) + 5(n - 7)$   
 $5n - 17$

6.  $-4(3a - 7) + 3(-8a - 5)$   
 $-36a + 13$

7.  $5(-7t + 3) + 7(4t + 1)$   
 $-7t + 22$

8.  $-4(-7c + 4) + 9(7c + 8)$   
 $91c + 56$

9.  $-2(-7w - 7) + 5(-7w - 8)$   
 $-21w - 26$

10.  $(-s - 4) + 2(-5s + 8)$   
 $-11s + 12$



# Adding Linear Expressions (E)

Simplify each expression.

1.  $3(-3w - 8) + 3(-8w + 2)$

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

3.  $-8(9v + 4) + 4(v + 3)$

4.  $-(4q + 6) + 3(6q - 5)$

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

6.  $5(-9c + 8) + 8(7c - 6)$

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

8.  $3(3t + 1) + 6(-6t)$

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

10.  $3(8h + 8) + 7(-5h + 3)$

# Adding Linear Expressions (E) Answers

Simplify each expression.

1.  $3(-3w - 8) + 3(-8w + 2)$   
 $-33w - 18$

2.  $3(r + 5) + 5(r + 6)$   
 $8r + 45$

3.  $-8(9v + 4) + 4(v + 3)$   
 $-68v - 20$

4.  $-(4q + 6) + 3(6q - 5)$   
 $14q - 21$

5.  $4(-3q + 3) + 3(-4q - 2)$   
 $-24q + 6$

6.  $5(-9c + 8) + 8(7c - 6)$   
 $11c - 8$

7.  $4(-7m - 4) + 4(-8m + 4)$   
 $-60m$

8.  $3(3t + 1) + 6(-6t)$   
 $-27t + 3$

9.  $9(6s - 4) + 4(-8s + 9)$   
 $22s$

10.  $3(8h + 8) + 7(-5h + 3)$   
 $-11h + 45$

# Adding Linear Expressions (F)

Simplify each expression.

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

2.  $-(-2h + 1) + 2(-9h - 5)$

3.  $3(z + 3) + 3(6z - 8)$

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

5.  $-7(-4b + 4) + 5(8b + 7)$

6.  $-7(7t + 3) + 4(-6t + 2)$

7.  $8(3p - 5) + 2(p + 3)$

8.  $5(6p + 5) + 3(-p + 2)$

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

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

# Adding Linear Expressions (F) Answers

Simplify each expression.

1.  $-3(-3h + 5) + 3(-6h - 8)$   
 $-9h - 39$

2.  $-(-2h + 1) + 2(-9h - 5)$   
 $-16h - 11$

3.  $3(z + 3) + 3(6z - 8)$   
 $21z - 15$

4.  $5(9q - 4) + 6(q + 8)$   
 $51q + 28$

5.  $-7(-4b + 4) + 5(8b + 7)$   
 $68b + 7$

6.  $-7(7t + 3) + 4(-6t + 2)$   
 $-73t - 13$

7.  $8(3p - 5) + 2(p + 3)$   
 $26p - 34$

8.  $5(6p + 5) + 3(-p + 2)$   
 $27p + 31$

9.  $4(8a + 8) + 4(8a - 6)$   
 $64a + 8$

10.  $2(-x + 5) + 7(-7x - 5)$   
 $-51x - 25$

# Adding Linear Expressions (G)

Simplify each expression.

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

2.  $-5(3n - 1) + 9(-5n + 1)$

3.  $7(8s - 1) + 6(3s - 5)$

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

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

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

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

8.  $-8(6z + 7) + 3(-4z - 1)$

9.  $-8(q + 2) + 9(q + 3)$

10.  $-9(-2m - 2) + 2(2m + 4)$

# Adding Linear Expressions (G) Answers

Simplify each expression.

1.  $-4(-5x - 2) + 7(7x - 5)$   
 $69x - 27$

2.  $-5(3n - 1) + 9(-5n + 1)$   
 $-60n + 14$

3.  $7(8s - 1) + 6(3s - 5)$   
 $74s - 37$

4.  $-6(3m + 5) + 6(-8m + 8)$   
 $-66m + 18$

5.  $5(-r + 5) + 3(-6r + 3)$   
 $-23r + 34$

6.  $5(-2y + 5) + 6(-3y + 7)$   
 $-28y + 67$

7.  $2(-c - 5) + 4(-8c + 2)$   
 $-34c - 2$

8.  $-8(6z + 7) + 3(-4z - 1)$   
 $-60z - 59$

9.  $-8(q + 2) + 9(q + 3)$   
 $q + 11$

10.  $-9(-2m - 2) + 2(2m + 4)$   
 $22m + 26$

# Adding Linear Expressions (H)

Simplify each expression.

1.  $5(-6) + 8(8s - 4)$

2.  $7(-3k + 1) + 4(-3k - 1)$

3.  $3(-6m - 4) + 4(-7)$

4.  $-3(-4) + 9(5s - 1)$

5.  $6(4d - 7) + 8(2d - 4)$

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

7.  $-8(-9p - 8) + 5(-9p + 8)$

8.  $5(6f - 6) + 5(5f - 6)$

9.  $-5(w + 5) + 4(-9w - 6)$

10.  $7(8a + 2) + 4(8a - 9)$

# Adding Linear Expressions (H) Answers

Simplify each expression.

1.  $5(-6) + 8(8s - 4)$

$64s - 62$

2.  $7(-3k + 1) + 4(-3k - 1)$

$-33k + 3$

3.  $3(-6m - 4) + 4(-7)$

$-18m - 40$

4.  $-3(-4) + 9(5s - 1)$

$45s + 3$

5.  $6(4d - 7) + 8(2d - 4)$

$40d - 74$

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

$20k - 24$

7.  $-8(-9p - 8) + 5(-9p + 8)$

$27p + 104$

8.  $5(6f - 6) + 5(5f - 6)$

$55f - 60$

9.  $-5(w + 5) + 4(-9w - 6)$

$-41w - 49$

10.  $7(8a + 2) + 4(8a - 9)$

$88a - 22$



# Adding Linear Expressions (I)

Simplify each expression.

1.  $4(9g + 2) + 8(-6g - 6)$

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

3.  $4(k - 3) + 6(-4k + 3)$

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

5.  $9(h - 8) + 2(h - 4)$

6.  $-5(3n - 2) + 3(-7n + 9)$

7.  $3(3w + 4) + 8(6w + 2)$

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

9.  $-4(-4y - 5) + 4(6y - 5)$

10.  $-6(8k - 3) + 7(-2k + 8)$

# Adding Linear Expressions (I) Answers

Simplify each expression.

1.  $4(9g + 2) + 8(-6g - 6)$   
 $-12g - 40$

2.  $9(-3h + 8) + 2(4h - 9)$   
 $-19h + 54$

3.  $4(k - 3) + 6(-4k + 3)$   
 $-20k + 6$

4.  $7(-3n + 2) + 3(-4n - 9)$   
 $-33n - 13$

5.  $9(h - 8) + 2(h - 4)$   
 $11h - 80$

6.  $-5(3n - 2) + 3(-7n + 9)$   
 $-36n + 37$

7.  $3(3w + 4) + 8(6w + 2)$   
 $57w + 28$

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

9.  $-4(-4y - 5) + 4(6y - 5)$   
 $40y$

10.  $-6(8k - 3) + 7(-2k + 8)$   
 $-62k + 74$

# Adding Linear Expressions (J)

Simplify each expression.

1.  $-5(-3a - 4) + 9(-8a - 1)$

2.  $-3(-9b - 1) + 5(-8b - 3)$

3.  $-5(6b + 7) + 6(-6b - 5)$

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

5.  $(-4s + 7) + 6(s - 3)$

6.  $9(9y - 3) + 7(-2y + 8)$

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

8.  $-5(-6y - 1) + 5(-7y - 1)$

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

10.  $-2(3b + 8) + 6(9b - 2)$

# Adding Linear Expressions (J) Answers

Simplify each expression.

1.  $-5(-3a - 4) + 9(-8a - 1)$   
 $-57a + 11$

2.  $-3(-9b - 1) + 5(-8b - 3)$   
 $-13b - 12$

3.  $-5(6b + 7) + 6(-6b - 5)$   
 $-66b - 65$

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

5.  $(-4s + 7) + 6(s - 3)$   
 $2s - 11$

6.  $9(9y - 3) + 7(-2y + 8)$   
 $67y + 29$

7.  $4(-6k + 4) + 4(2k + 3)$   
 $-16k + 28$

8.  $-5(-6y - 1) + 5(-7y - 1)$   
 $-5y$

9.  $-6(f + 5) + 8(-3f - 6)$   
 $-30f - 78$

10.  $-2(3b + 8) + 6(9b - 2)$   
 $48b - 28$