

# Adding & Subtracting Linear Expressions (A)

Simplify each expression.

1.  $(8r + 9) + 7(4r + 3)$

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

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

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

5.  $-8(-g + 6) - 4(8g + 5)$

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

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

8.  $7(-3) - (-2m)$

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

10.  $-3(-6z + 7) - (8z + 3)$

# Adding & Subtracting Linear Expressions (A) Answers

Simplify each expression.

1.  $(8r + 9) + 7(4r + 3)$

$36r + 30$

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

$50s + 23$

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

$-4f - 5$

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

$-21b + 28$

5.  $-8(-g + 6) - 4(8g + 5)$

$-24g - 68$

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

$n + 14$

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

$-7f + 2$

8.  $7(-3) - (-2m)$

$2m - 21$

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

$-7d - 40$

10.  $-3(-6z + 7) - (8z + 3)$

$10z - 24$

# Adding & Subtracting Linear Expressions (B)

Simplify each expression.

1.  $(-7a - 6) + (-7a + 6)$

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

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

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

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

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

7.  $(-8f - 8) - (8f + 3)$

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

9.  $(4r - 4) + 8(-7r - 1)$

10.  $-5(2f + 3) - (-3f + 1)$

# Adding & Subtracting Linear Expressions (B) Answers

Simplify each expression.

1.  $(-7a - 6) + (-7a + 6)$   
 $-14a$

2.  $(3b - 1) - 6(b + 5)$   
 $-3b - 31$

3.  $(7a + 2) + (a + 3)$   
 $8a + 5$

4.  $(-6p - 8) - (4p - 6)$   
 $-10p - 2$

5.  $3(6c - 9) - 6(c - 6)$   
 $12c + 9$

6.  $(-4c - 5) + (-9c - 9)$   
 $-13c - 14$

7.  $(-8f - 8) - (8f + 3)$   
 $-16f - 11$

8.  $(-6q + 4) + (-2q + 8)$   
 $-8q + 12$

9.  $(4r - 4) + 8(-7r - 1)$   
 $-52r - 12$

10.  $-5(2f + 3) - (-3f + 1)$   
 $-7f - 16$

# Adding & Subtracting Linear Expressions (C)

Simplify each expression.

1.  $-5(-9h - 4) + (-h - 2)$

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

3.  $(-7d - 8) - 9(-5d)$

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

5.  $2(5n - 7) - 2(-2n + 2)$

6.  $(8) + 4(-5v + 8)$

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

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

9.  $(6c - 4) - 7(8c + 6)$

10.  $(-7s - 9) - 2(3s + 3)$

# Adding & Subtracting Linear Expressions (C) Answers

Simplify each expression.

1.  $-5(-9h - 4) + (-h - 2)$

$44h + 18$

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

$7a - 6$

3.  $(-7d - 8) - 9(-5d)$

$38d - 8$

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

$21k - 99$

5.  $2(5n - 7) - 2(-2n + 2)$

$14n - 18$

6.  $(8) + 4(-5v + 8)$

$-20v + 40$

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

$53y - 64$

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

$-6w + 78$

9.  $(6c - 4) - 7(8c + 6)$

$-50c - 46$

10.  $(-7s - 9) - 2(3s + 3)$

$-13s - 15$

# Adding & Subtracting Linear Expressions (D)

Simplify each expression.

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

2.  $-4(-c + 6) - (6c + 5)$

3.  $(-5f - 8) + 7(5f - 3)$

4.  $5(-8s + 3) + (7s - 4)$

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

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

7.  $7(7r + 1) - (-8r + 4)$

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

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

10.  $(-8k - 3) + (3k + 3)$

# Adding & Subtracting Linear Expressions (D) Answers

Simplify each expression.

1.  $-8(5x - 7) - 7(8x)$   
 $-96x + 56$

2.  $-4(-c + 6) - (6c + 5)$   
 $-2c - 29$

3.  $(-5f - 8) + 7(5f - 3)$   
 $30f - 29$

4.  $5(-8s + 3) + (7s - 4)$   
 $-33s + 11$

5.  $-7(9y - 6) + (6y - 6)$   
 $-57y + 36$

6.  $(4r - 5) - 6(-r - 8)$   
 $10r + 43$

7.  $7(7r + 1) - (-8r + 4)$   
 $57r + 3$

8.  $-7(-6z - 8) + (-8z + 4)$   
 $34z + 60$

9.  $-(5g - 5) - (7g + 1)$   
 $-12g + 4$

10.  $(-8k - 3) + (3k + 3)$   
 $-5k$



# Adding & Subtracting Linear Expressions (E)

Simplify each expression.

1.  $(5q - 8) - 8(-2q + 6)$

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

3.  $(-7b + 7) - 3(3b + 1)$

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

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

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

7.  $-3(2z - 1) - (7z + 6)$

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

9.  $8(3s - 6) + 6(-9s + 2)$

10.  $-4(-6q + 5) - (7q - 2)$

# Adding & Subtracting Linear Expressions (E) Answers

Simplify each expression.

1.  $(5q - 8) - 8(-2q + 6)$   
 $21q - 56$

2.  $(-2h + 2) + 9(6h - 8)$   
 $52h - 70$

3.  $(-7b + 7) - 3(3b + 1)$   
 $-16b + 4$

4.  $-6(-5v + 5) + (-5v + 3)$   
 $25v - 27$

5.  $(-4d - 9) - (8d + 2)$   
 $-12d - 11$

6.  $-6(-7m + 3) - 3(-3m - 4)$   
 $51m - 6$

7.  $-3(2z - 1) - (7z + 6)$   
 $-13z - 3$

8.  $-6(p - 9) + (-6p + 9)$   
 $-12p + 63$

9.  $8(3s - 6) + 6(-9s + 2)$   
 $-30s - 36$

10.  $-4(-6q + 5) - (7q - 2)$   
 $17q - 18$

# Adding & Subtracting Linear Expressions (F)

Simplify each expression.

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

2.  $9(-3w + 1) - 6(-3w + 4)$

3.  $(2t + 3) - (9t - 1)$

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

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

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

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

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

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

10.  $(-6n - 8) + 3(2n - 5)$

# Adding & Subtracting Linear Expressions (F) Answers

Simplify each expression.

1.  $-8(2g - 2) - 4(-2g - 7)$   
 $-8g + 44$

2.  $9(-3w + 1) - 6(-3w + 4)$   
 $-9w - 15$

3.  $(2t + 3) - (9t - 1)$   
 $-7t + 4$

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

5.  $8(-2k + 5) + 4(-4k + 1)$   
 $-32k + 44$

6.  $4(-2z + 5) - (4z + 9)$   
 $-12z + 11$

7.  $9(h - 6) + 2(7h + 7)$   
 $23h - 40$

8.  $(9w + 4) - (-6w - 9)$   
 $15w + 13$

9.  $(-8x - 5) + 9(9x + 8)$   
 $73x + 67$

10.  $(-6n - 8) + 3(2n - 5)$   
 $-23$

# Adding & Subtracting Linear Expressions (G)

Simplify each expression.

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

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

3.  $(4) - 7(-8s + 4)$

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

5.  $(3a - 6) + (-2a - 3)$

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

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

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

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

10.  $-3(-2s + 8) - (-3s + 8)$

# Adding & Subtracting Linear Expressions (G) Answers

Simplify each expression.

1.  $-3(7m - 8) - 7(3m + 7)$   
 $-42m - 25$

2.  $(-2s - 1) - 7(5s + 8)$   
 $-37s - 57$

3.  $(4) - 7(-8s + 4)$   
 $56s - 24$

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

5.  $(3a - 6) + (-2a - 3)$   
 $a - 9$

6.  $-9(5n + 3) - 5(7n + 2)$   
 $-80n - 37$

7.  $(6t + 6) + 4(8t - 2)$   
 $38t - 2$

8.  $(-w + 3) - (5w - 8)$   
 $-6w + 11$

9.  $(8y + 6) - (3y - 4)$   
 $5y + 10$

10.  $-3(-2s + 8) - (-3s + 8)$   
 $9s - 32$

# Adding & Subtracting Linear Expressions (H)

Simplify each expression.

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

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

3.  $(9y) - 8(3y - 3)$

4.  $-4(5n + 2) + 2(n - 8)$

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

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

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

8.  $(8m + 7) - 6(-4m + 1)$

9.  $4(-6f - 1) + 9(-5f + 5)$

10.  $(-7s + 2) - (-6s - 8)$

# Adding & Subtracting Linear Expressions (H) Answers

Simplify each expression.

1.  $5(-6y + 7) - (7y - 5)$   
 $-37y + 40$

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

3.  $(9y) - 8(3y - 3)$   
 $-15y + 24$

4.  $-4(5n + 2) + 2(n - 8)$   
 $-18n - 24$

5.  $-3(-3p + 4) + (-7)$   
 $9p - 19$

6.  $-7(-3s - 2) + 6(-5s + 5)$   
 $-9s + 44$

7.  $(-2d - 6) + 8(-4d + 6)$   
 $-34d + 42$

8.  $(8m + 7) - 6(-4m + 1)$   
 $32m + 1$

9.  $4(-6f - 1) + 9(-5f + 5)$   
 $-69f + 41$

10.  $(-7s + 2) - (-6s - 8)$   
 $-s + 10$



# Adding & Subtracting Linear Expressions (I)

Simplify each expression.

1.  $8(8q - 2) - 9(-3q - 3)$

2.  $(z + 3) + 4(3z + 4)$

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

4.  $-6(-7h + 8) - (9h - 3)$

5.  $(4p + 8) - (4p + 1)$

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

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

8.  $(2b - 1) + (-2b + 7)$

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

10.  $(-w + 4) + 5(2w + 7)$

# Adding & Subtracting Linear Expressions (I) Answers

Simplify each expression.

1.  $8(8q - 2) - 9(-3q - 3)$

$91q + 11$

2.  $(z + 3) + 4(3z + 4)$

$13z + 19$

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

$-h - 1$

4.  $-6(-7h + 8) - (9h - 3)$

$33h - 45$

5.  $(4p + 8) - (4p + 1)$

$7$

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

$65$

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

$39g + 34$

8.  $(2b - 1) + (-2b + 7)$

$6$

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

$-21q + 7$

10.  $(-w + 4) + 5(2w + 7)$

$9w + 39$

# Adding & Subtracting Linear Expressions (J)

Simplify each expression.

1.  $(-a - 7) + 4(4a - 8)$

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

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

4.  $-2(6w - 8) - (-5w - 4)$

5.  $(-9p - 6) - 5(-5p)$

6.  $6(x + 4) - (-2x - 1)$

7.  $(-8n + 6) + 6(3n + 9)$

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

9.  $-9(f - 5) - 9(-2f - 6)$

10.  $(7w - 4) - (-w - 6)$

# Adding & Subtracting Linear Expressions (J) Answers

Simplify each expression.

1.  $(-a - 7) + 4(4a - 8)$

$15a - 39$

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

$81c - 75$

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

$5p + 13$

4.  $-2(6w - 8) - (-5w - 4)$

$-7w + 20$

5.  $(-9p - 6) - 5(-5p)$

$16p - 6$

6.  $6(x + 4) - (-2x - 1)$

$8x + 25$

7.  $(-8n + 6) + 6(3n + 9)$

$10n + 60$

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

$4x - 1$

9.  $-9(f - 5) - 9(-2f - 6)$

$9f + 99$

10.  $(7w - 4) - (-w - 6)$

$8w + 2$