Name : _____ Score : _____

Simplifying Linear Expressions

ES1

Simplify each expression.

1) $10x - 8x + 2 + 10$

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

3) $3(m - 5) + m$

4) $2s + 10 - 7s - 8 + 3s - 7$

5) $8c - 4 - 2c + 5$

6) $-4 + 7z + 3 - 2z$

7) $15 + 4(5y - 10)$

8) $2d + 17 - 3 - 2d + 4d$

9) $12n - 8 - 2n + 10 - 4$

10) $8(2k + 1 + 3k)$

11) $4(2b + 2) - 3$

12) $-4 + 8p - 6p - 5 + 20p$

Name : _____ Score : _____

Answer key

ES1

Simplifying Linear Expressions

Simplify each expression.

1) $10x - 8x + 2 + 10$

$2x + 12$

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

$5a + 13$

3) $3(m - 5) + m$

$4m - 15$

4) $2s + 10 - 7s - 8 + 3s - 7$

$-2s - 5$

5) $8c - 4 - 2c + 5$

$6c + 1$

6) $-4 + 7z + 3 - 2z$

$5z - 1$

7) $15 + 4(5y - 10)$

$20y - 25$

8) $2d + 17 - 3 - 2d + 4d$

$4d + 14$

9) $12n - 8 - 2n + 10 - 4$

$10n - 2$

10) $8(2k + 1 + 3k)$

$40k + 8$

11) $4(2b + 2) - 3$

$8b + 5$

12) $-4 + 8p - 6p - 5 + 20p$

$22p - 9$

Name : _____ Score : _____

ES2

Simplifying Linear Expressions

Simplify each expression.

1) $12s - 2 + 10s - 5 + 3s$

2) $7(2m - 7) - 4$

3) $10(3n + 2 + 10n)$

4) $8k + 2 + 4k - 3k + 5$

5) $-15 - 2c +$ x

7) $10z - 2 + 9$ $7b - 3$

9) $3 + 2(3p +$ $- 2$

11) $8 + 7y - 3y + 2 - 4$

12) $10a - 2(11 + 6a - 3)$

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Answer key

ES2

Simplifying Linear Expressions

Simplify each expression.

1) 12s – 2 + 10s – 5 + 3s

25s – 7

2) 7(2m – 7) – 4

14m – 53

3) 10(3n + 2 + 10n)

130n + 20

4) 8k + 2 + 4k – 3k + 5

5) –15 – 2c + x

–6c + 2

7) 10z – 2 + 9 7b – 3

18z – 5

9) 3 + 2(3p + – 2

6p + 13

t + 7

11) 8 + 7y – 3y + 2 – 4

4y + 6

12) 10a – 2(11 + 6a – 3)

–2a – 16

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ES3

Simplifying Linear Expressions

Simplify each expression.

1) $2k(14) + 7(2k) - 2$

2) $12 + 4n + 5 - 2n - 10$

3) $3a - 4 + 5a + 7 + 2(a + 1)$

4) $3 + 2s - 4 + 3s$

5) $7p - 6 + 8p$ … $- 7)$

7) $c + 6 + 4c$ … $m - 3 + 5m$

9) $-86 - 2(11$

11) $-20 + 5(7t - 2)$

12) $4(3z + 5 + 7z) - 12$

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Answer key

ES3

Simplifying Linear Expressions

Simplify each expression.

1) $2k(14) + 7(2k) - 2$

42k – 2

2) $12 + 4n + 5 - 2n - 10$

2n + 7

3) $3a - 4 + 5a + 7 + 2(a + 1)$

10a + 5

4) $3 + 2s - 4 + 3s$

5) 7p – 6 + 8p – 7)

13p – 8

7) c + 6 + 4c - m – 3 + 5m

5c + 7

9) –86 – 2(11

–2b – 60

15r + 72

11) $-20 + 5(7t - 2)$

35t – 30

12) $4(3z + 5 + 7z) - 12$

40z + 8

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