


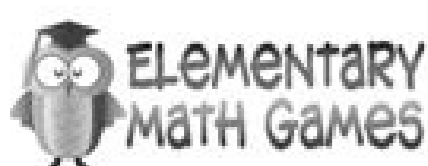
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Elementary Algebra Worksheet
Simplifying Variable Expressions

NAME _____

1. $8x - 3x =$ _____
2. $23v - 5v =$ _____
3. $21x - 12x =$ _____
4. $13r + 4 - 7r =$ _____
5. $12t - 7t + 5 - 1 =$ _____
6. $13x - 2x + 6 =$ _____
7. $4t + 6 - 2t =$ _____
8. $15v - 2v + 7 =$ _____
9. $23x - 18x + 9 - 1 =$ _____
10. $15x - 12x =$ _____
11. $21t - 4t =$ _____
12. $18x - 3x + 1 =$ _____
13. $4x + 12x =$ _____
14. $9x - 6x =$ _____
15. $12v - 8v - 5 =$ _____
16. $14x - 7x - 9 =$ _____



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Simplify Expressions Worksheet 3

Simplify the expressions.

1a. $6y - 2y$	1b. $6 - 7b + 7b + 3 + b$
2a. $10a - 2 + 3 - a$	2b. $m \cdot 7 \cdot m \cdot m \cdot m \cdot 9$
3a. $3 + 8(5a + 10)$	3b. $6v - 8v + 4 + 6v$
4a. $s \cdot 1 \cdot s \cdot 3$	4b. $6k - 6k$
5a. $10y^4 \cdot y^2$	5b. $10x + 7 - 5x$
6a. $1v - v + 7 + 9v$	6b. $6z - 5 + 5 - 6z$
7a. $9w + 5w$	7b. $s \cdot 2s \cdot s \cdot s \cdot s$

[Answer Key](#)

Factoring Expressions (A) Answers

Factor each expression.

1. $3x + 15$
 $3(x + 5)$
2. $8y - 72$
 $8(y - 9)$
3. $9a + 18$
 $9(a + 2)$
4. $3b - 27$
 $3(b - 9)$
5. $5c + 40$
 $5(c + 8)$
6. $9a + 18$
 $9(a + 2)$
7. $6c + 18$
 $6(c + 3)$
8. $8c - 8$
 $8(c - 1)$
9. $5x - 10$
 $5(x - 2)$
10. $2b - 16$
 $2(b - 8)$
11. $8b + 72$
 $8(b + 9)$
12. $7c - 35$
 $7(c - 5)$
13. $5x - 15$
 $5(x - 3)$
14. $6a - 48$
 $6(a - 8)$
15. $3a - 6$
 $3(a - 2)$
16. $9c - 63$
 $9(c - 7)$
17. $3z + 9$
 $3(z + 3)$
18. $6b - 12$
 $6(b - 2)$
19. $2y + 18$
 $2(y + 9)$
20. $3b - 6$
 $3(b - 2)$
21. $3x + 24$
 $3(x + 8)$
22. $9x - 18$
 $9(x - 2)$
23. $2c + 16$
 $2(c + 8)$
24. $7b - 28$
 $7(b - 4)$
25. $7x - 56$
 $7(x - 8)$
26. $8z - 56$
 $8(z - 7)$
27. $7z - 28$
 $7(z - 4)$
28. $9b + 27$
 $9(b + 3)$
29. $4b + 24$
 $4(b + 6)$
30. $6c + 36$
 $6(c + 6)$

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