

Name: _____

Period: _____ Date: _____

Simplifying Variable Expressions 2 **Answers**

Section I. Simplify the variable expression

1. $2x + 5x$

$7x$

2. $3 + 9y - 2y$

$3 + 7y$

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

$53h - 6$

4. $12 + 15k + 4 - 7k$

$16 + 8k$

5. $10m + 9n - 4n - 7m$

$3m + 5n$

6. $-a - (2b - 11a)$

$10a - 2b$

7. $-4a + 8 - 4a - 7a$

$-15a + 8$

8. $2g - 4h + 3g + 5 - 6h$

$5g - 10h + 5$

9. $3(w - 7) + 18w$

$21w - 21$

10. $5 - (9k - 8) - 13k$

$13 - 22k$

11. $-6(1 - x) - 9$

$-15 + 6x$

12. $-2(17 - j) + 11j$

$-34 + 13j$

13. $16ab + 7a - 11ab - 7a$

$5ab$

14. $8y^2 - 17x^2 - 7y^2 + 9x^2$

$y^2 - 8x^2$

15. $13k - (5k - 18) + 9$

$8k + 27$

16. $4(11 - h^2) - 6h^2$

$44 - 10h^2$

17. $-8(c^3 - 6) + 13c^3$

$5c^3 + 48$

19. $16a^2 + 13b - 27a^2 + 13b$

$-11a^2 + 26b$

21. $6y - 3(2x - 8y)$

$30y - 6x$

23. $9 - (5m - 16) + 2m$

$-3m + 25$

25. $5b - 2(5b - 7) + 8$

$-5b + 22$

27. $-14m^2 + 6mn - 9mn + 7m^2$

$-7m^2 - 3mn$

29. $8h^2 - 2h(4h - 7h^2) - 25h^3$

$-11h^3$

18. $-21f - 4(5g - f) - 27g$

$-17f - 47g$

20. $v^3w^4 - 6v^3w - 7v^3w^4$

$-6v^3w^4 - 6v^3w$

22. $9p^2 - 2q - 7q + 3q^2$

$9p^2 - 9q + 3q^2$

24. $11fg^2 - 14f^2g - 23fg^2 + 5f^2g$

$-12fg^2 - 9f^2g$

26. $12h^2 + 8h(3k - 6h) - 10hk$

$-36h^2 + 14hk$

28. $-3w(15w - 8) + 11w$

$-45w^2 + 35w$

30. $7x(4x - 9) - 3x(14 - 9x)$

$55x^2 - 105x$