

Simplifying Expressions—One Variable

EXAMPLESimplify $2n + 2 + 4n$.

1. Look for like terms. $2n$ and $4n$ are like terms, because they have the same variable, n .
2. Combine the terms: $2n + 4n = 6n$
3. Rewrite the whole expression: $6n + 2$

Now you are finished, because $6n$ cannot combine with 2.**Directions** In each expression, underline the like terms.

1. $3k - 8 + 2k$

2. $p + 12 + p$

3. $100 + 4w + 4w$

4. $5m - 3 + 2m$

5. $7x + 5x - 12$

6. $-2 + 11c + c$

7. $\frac{4}{7} + 2m + 3m$

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

9. $4x - 13 + 5x$

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

Directions Simplify each expression.

11. $3b + b$ _____

12. $11y + 2y + y$ _____

13. $7j + 3j - 2j$ _____

14. $2k - 17 + k$ _____

15. $11x + x - 14$ _____

16. $22 + 2d + 8d$ _____

17. $9g + (-2g) + 4$ _____

18. $14h - 3 - 2h$ _____

19. $2m + (-8m)$ _____

20. $3 + 4k - 3k$ _____

21. $2y + (-2y) + 5$ _____

22. $-5 + 6n - 4n$ _____

23. $2x + 11x - 13$ _____

24. $-h + 7h$ _____

25. $-11 - (-3k) + k$ _____

26. $7d - d + 40$ _____

27. $8 + 3m - (-m)$ _____

28. $3w + (-5w)$ _____

29. $2 + 5x - 2x$ _____

30. $8g + (-5g) - 6$ _____