

Chapter 1 Section 3: Combining Like Terms

Problems

Simplify.

1. $6x + 8 + 3x$

2. $12y + y + 6 + 1$

3. $14 + 8 + 22p + 11p$

4. $17m + 5 + 3m + 8$

5. $k + 1 + k + 5$

6. $6x + 6 + 4x + 5$

7. $y + 6 + 4y + 2$

8. $7m + 2n + 4m + 3n$

9. $8x + 9y + 2x + y$

10. $6x + 8 + 4 + 2x$

11. $72 + 35q + 8q + 16$

12. $4x + 7 + x + 12$

13. $8m + 7n + 4m + n$

14. $10x + y + 4 + 15$

15. $17m + 5n + 3 + 8m + 4$

16. $46x + 15y + 1 + 3y$

17. $r + 2s + 9 + 7 + r + s$

18. $6 + 3 + 5c + 2 + 3c + c$

19. $22f + 14 + 3 + 3f + 4$

20. $2 + t + 8 + 9u + t + u$

21. $10x + 4y + 8 + 5x + y + 7$

22. $2x + 5y + 7z + 18 + 8y + 4$

23. $6m + 10n + 17p + 4m + 2q + 8p + 3n + 9q$

24. $50g + 85 + 39h + 10k + 30 + 6f + 20h + 6k + 6 + 50g + 12f$

In problems 25–30, determine which property is used: commutative property of addition, commutative property of multiplication, associative property of addition, or associative property of multiplication.

25. $x \cdot 7 = 7 \cdot x$

26. $4 + (6 + y) = (4 + 6) + y$

27. $(9 + 3) + m = (3 + 9) + m$

28. $11 + k = k + 11$

29. $3(6 \cdot x) = (3 \cdot 6)x$

30. $7(5 \cdot p) = 7(p \cdot 5)$
