

Simplify #3 (no division)

1. $x + x + x$

2. $x \times x \times x$

3. $4x \times 5x$

4. $x + 5x$

5. $a + b - a$

6. $x^2 + x^2 + x^2$

7. $4x - 6x$

8. $5y + 4x + 3y$

9. $2y^2 + 4y + y^2$

10. $2x^2 \times 10$

11. $6k + 2k$

12. $5x - x$

13. $2x^4 \times \frac{1}{2} x^2$

14. $7x^2 - 3x^2$

15. $2y \times 5y$

16. $k \times 8$

17. $4k^4 \times 3k$

18. $2k^2 \times 3k^2$

19. $5x^2 + 3x^2$

20. $4y \times y^2$

21. $2j^2 \times 4j^4$

22. $7 \times g$

23. $2k + 5k$

24. $2k^4 \times 3$

25. $4y - 3y$

26. $4k^3 + 2k^3$

27. $4x^4 \times 2x^2$

28. $3x^4 \times 7$

29. $5k - 7k$

30. $2x \times 3x^2$

31. $3y \times 3y^2$

32. $4x + 2x$

33. $3k^2 + 5k^2$

34. $k \times 2k^2$

35. $2x \times 3x^2$

36. $4x + 2x$

37. $3k^2 + 5k^2$

38. $3x + 3x$

39. $5k^3 \times 5k$

40. $3x - 3x$

Simplify #3 Answers

Note that addition and multiplication can be in any order, as $2a + b = b + 2a$ and $4ab = 4ba$

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|-----|---------------------------------|-------------|-----|----------------------|-----------------|
| 1. | $x + x + x =$ | $3x$ | 21. | $2j^2 \times 4j^4 =$ | $8j^6$ |
| 2. | $x \times x \times x =$ | x^3 | 22. | $7 \times g =$ | $7g$ |
| 3. | $4x \times 5x =$ | $20x^2$ | 23. | $2k + 5k =$ | $7k$ |
| 4. | $x + 5x =$ | $6x$ | 24. | $2k^4 \times 3 =$ | $6k^4$ |
| 5. | $a + b - a =$ | b | 25. | $4y - 3y =$ | y (or $1y$) |
| 6. | $x^2 + x^2 + x^2 =$ | $3x^2$ | 26. | $4k^3 + 2k^3 =$ | $6k^3$ |
| 7. | $4x - 6x =$ | $-2x$ | 27. | $4x^4 \times 2x^2 =$ | $8x^6$ |
| 8. | $5y + 4x + 3y =$ | $8y + 4x$ | 28. | $3x^4 \times 7 =$ | $21x^4$ |
| 9. | $2y^2 + 4y + y^2 =$ | $3y^2 + 4y$ | 29. | $5k - 7k =$ | $-2k$ |
| 10. | $2x^2 \times 10 =$ | $20x^2$ | 30. | $2x \times 3x^2 =$ | $6x^3$ |
| 11. | $6k + 2k =$ | $8k$ | 31. | $3y \times 3y^2 =$ | $9y^3$ |
| 12. | $5x - x =$ | $4x$ | 32. | $4x + 2x =$ | $6x$ |
| 13. | $2x^4 \times \frac{1}{2} x^2 =$ | x^6 | 33. | $3k^2 + 5k^2 =$ | $8k^2$ |
| 14. | $7x^2 - 3x^2 =$ | $4x^2$ | 34. | $k \times 2k^2 =$ | $2k^3$ |
| 15. | $2y \times 5y =$ | $10y^2$ | 35. | $2x \times 3x^2 =$ | $6x^3$ |
| 16. | $k \times 8 =$ | $8k$ | 36. | $4x + 2x =$ | $6x$ |
| 17. | $4k^4 \times 3k =$ | $12k^5$ | 37. | $3k^2 + 5k^2 =$ | $8k^2$ |
| 18. | $2k^2 \times 3k^2 =$ | $6k^4$ | 38. | $3x + 3x =$ | $6x$ |
| 19. | $5x^2 + 3x^2 =$ | $8x^2$ | 39. | $5k^3 \times 5k =$ | $25k^4$ |
| 20. | $4y \times y^2 =$ | $4y^3$ | 40. | $3x - 3x =$ | 0 |