

Basic Simplify Practice #2

1. $2k \times 2k^2$

2. $k + k + k$

3. $2x - x$

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

5. $7x^2 - 3x^2$

6. $8 \div 4y$

7. $k^2 \times -8$

8. $4k^4 \times -3k$

9. $-5x^2 + 3x^2$

10. $4 \div y^4$

11. $2j^2 \times 4j^4$

12. $2k + 5$

13. $2k^4 \times 3$

14. $-4k^3 + -2k^3$

15. $4x^4 \div 2x^2$

16. $3x^4 \times -7$

17. $5k - 7k$

18. $-2x \times -3x^2$

19. $3y \times 3y^2$

20. $4x^4 \times 2x$

21. $3x \div 3x$

22. $-2x + -4x$

23. $-4x^3 + -4x^3$

24. $1 \times 8e$

25. $3k^2 \times 2g^4$

26. $2x \times 4x^3$

27. $3x^2 + 2x^2$

28. $4e - 5ef$

29. $4x + 2x$

30. $y \times y \times y$

31. $2y + 2x$

32. $3y^2 - 2y^3$

33. $2x^3 \times 2y^3$

34. $y \times 4y^4$

35. $4y^2 - 2y^2$

36. $x \times x$

37. $y + y + y + y$

38. $-g - g - g - g$

39. $3e \times 2x^3$

40. $4 \times 4x$

Answers: Basic Simplify Practice #2

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|-----|--------------------------------|------------------------------|-----|-------------------------|------------------------|
| 1. | $2k \times 2k^2 =$ | $4k^3$ | 21. | $3x \div 3x =$ | 1 |
| 2. | $k + k + k =$ | $3k$ | 22. | $-2x + -4x =$ | $-6x$ |
| 3. | $2x - x =$ | x | 23. | $-4x^3 + -4x^3 =$ | $-8x^3$ |
| 4. | $2x^4 \times \frac{1}{2}x^2 =$ | x^6 | 24. | $1 \times 8e =$ | $8e$ |
| 5. | $7x^2 - 3x^2 =$ | $4x^2$ | 25. | $3k^2 \times 2g^4 =$ | $6k^2g^4$ |
| 6. | $8 \div 4y =$ | $\frac{2}{y}$ or $2y^{-1}$ | 26. | $2x \times 4x^3 =$ | $8x^4$ |
| 7. | $k^2 \times -8 =$ | $-8k^2$ | 27. | $3x^2 + 2x^2 =$ | $5x^2$ |
| 8. | $4k^4 \times -3k =$ | $-12k^5$ | 28. | $4e - 5ef =$ | <i>no change</i> |
| 9. | $-5x^2 + 3x^2 =$ | $-2x^2$ | 29. | $4x + 2x =$ | $6x$ |
| 10. | $4 \div y^4 =$ | $\frac{4}{y^4}$ or $4y^{-4}$ | 30. | $y \times y \times y =$ | y^3 |
| 11. | $2j^2 \times 4j^4 =$ | $8j^6$ | 31. | $2y + 2x =$ | <i>no change</i> |
| 12. | $2k + 5 =$ | <i>no change</i> | 32. | $3y^2 - 2y^3 =$ | y^3 (accept $1y^3$) |
| 13. | $2k^4 \times 3 =$ | $6k^4$ | 33. | $2x^3 \times 2y^3 =$ | $4x^3y^3$ |
| 14. | $-4k^3 + -2k^3 =$ | $-6k^3$ | 34. | $y \times 4y^4 =$ | $4y^5$ |
| 15. | $4x^4 \div 2x^2 =$ | $2x^2$ | 35. | $4y^2 - 2y^2 =$ | $2y^2$ |
| 16. | $3x^4 \times -7 =$ | $-21x^4$ | 36. | $x \times x =$ | x^2 |
| 17. | $5k - 7k =$ | $-2k$ | 37. | $y + y + y + y =$ | $4y$ |
| 18. | $-2x \times -3x^2 =$ | $6x^3$ | 38. | $-g - g - g - g =$ | $-4g$ |
| 19. | $3y \times 3y^2 =$ | $9y^3$ | 39. | $3e \times 2x^3 =$ | $6ex^3$ |
| 20. | $4x^4 \times 2x =$ | $8x^5$ | 40. | $4 \times 4x =$ | $16x$ |