

Basic Simplify Practice #1

1. $4x \times 3$

2. $2y^4 + 4y$

3. $x^2 \times 12$

4. $4y^3 \div 4y^2$

5. $4k - 4k$

6. $2k \div 2$

7. $k + 4x^4$

8. $3k^3 \div 4k^3$

9. $2y^4 + 3y^4$

10. $5x^4 \times 2x^2$

11. $3k^2 - 6k^2$

12. $9k \div 3g$

13. $2x^4 \div 4x$

14. $y^4 \div xy$

15. $2x^3 \times x$

16. $12y^2 \div 3$

17. $x^2 + 7$

18. $8k^2 - 2k^2$

19. $2 \times 3g$

20. $2x^4 \div 3x^4$

21. $6x - 14x$

22. $2 \div 2x$

23. $k^3 + 2k^2$

24. $2k^3 \div 2k$

25. $7y \times 4y^4$

26. $3y \times 4x$

27. $4 \times 2y^4$

28. $2x - 4x$

29. $k^4 - k$

30. $8 \div 4g$

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

32. $k - 4k$

33. $2f \times 3$

34. $5k^2 \times 4k^3$

35. $3x^2 \times x^4$

36. $k \times y^2$

37. $2y - 4y^2$

38. $2y^3 \div 8y^4$

39. $2f \times 2x$

40. $8x^2 - 2x^2$

Answers: Basic Simplify Practice #1

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|-----|----------------------|---------------------------------|-----|----------------------|---------------------------------|
| 1. | $4x \times 3 =$ | $12x$ | 21. | $6x - 14x =$ | $-8x$ |
| 2. | $2y^4 + 4y =$ | <i>no change</i> | 22. | $2 \div 2x =$ | $\frac{1}{x}$ or x^{-1} |
| 3. | $x^2 \times 12 =$ | $12x^2$ | 23. | $k^3 + 2k^2 =$ | <i>no change</i> |
| 4. | $4y^3 \div 4y^2 =$ | y | 24. | $2k^3 \div 2k =$ | k^2 |
| 5. | $4k - 4k =$ | 0 | 25. | $7y \times 4y^4 =$ | $28y^5$ |
| 6. | $2k \div 2 =$ | k | 26. | $3y \times 4x =$ | $12xy$ |
| 7. | $k + 4x^4 =$ | <i>no change</i> | 27. | $4 \times 2y^4 =$ | $8y^4$ |
| 8. | $3k^3 \div 4k^3 =$ | $\frac{3}{4}$ or 0.75 | 28. | $2x - 4x =$ | $-2x$ |
| 9. | $2y^4 + 3y^4 =$ | $5y^4$ | 29. | $k^4 - k =$ | <i>no change</i> |
| 10. | $5x^4 \times 2x^2 =$ | $10x^6$ | 30. | $8 \div 4g =$ | $\frac{2}{g}$ or $2g^{-1}$ |
| 11. | $3k^2 - 6k^2 =$ | $-3k^2$ | 31. | $2y^3 \div 2y^2 =$ | y |
| 12. | $9k \div 3g =$ | $\frac{3k}{g}$ or $3k g^{-1}$ | 32. | $k - 4k =$ | $-3k$ |
| 13. | $2x^4 \div 4x =$ | $\frac{x^3}{2}$ or $0.5 x^2$ | 33. | $2f \times 3 =$ | $6f$ |
| 14. | $y^4 \div xy =$ | $\frac{y^3}{x}$ or $y^3 x^{-1}$ | 34. | $5k^2 \times 4k^3 =$ | $20k^5$ |
| 15. | $2x^3 \times x =$ | $2x^4$ | 35. | $3x^2 \times x^4 =$ | $3x^6$ |
| 16. | $12y^2 \div 3 =$ | $4y^2$ | 36. | $k \times y^2 =$ | ky^2 |
| 17. | $x^2 + 7 =$ | <i>no change</i> | 37. | $2y - 4y^2 =$ | <i>no change</i> |
| 18. | $8k^2 - 2k^2 =$ | $6k^2$ | 38. | $2y^3 \div 8y^4 =$ | $\frac{1}{4y}$ or $0.25 y^{-1}$ |
| 19. | $2 \times 3g =$ | $6g$ | 39. | $2f \times 2x =$ | $4fx$ |
| 20. | $2x^4 \div 3x^4 =$ | $\frac{2}{3}$ or 0.667 | 40. | $8x^2 - 2x^2 =$ | $6x^2$ |