

Use the properties of exponents to evaluate the expression.

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|----------------------------------|-------------------------------------|-------------------------------------|
| 1. $3^4 \cdot 3^5$ | 2. $2^6 \cdot 2^2$ | 3. $4^3 \cdot 4^2$ |
| 4. $4^{-1} \cdot 4^4$ | 5. $2^{-5} \cdot 2^3$ | 6. $5^{-7} \cdot 5^8$ |
| 7. $6^{-2} \cdot 6^{-1}$ | 8. $3^{-2} \cdot 3^{-3}$ | 9. $2^{-4} \cdot 2^{-3}$ |
| 10. $(-3)^2(-3)^3$ | 11. $(-5)^{-6}(-5)^8$ | 12. $(-2)^{-3}(-2)^{-2}$ |
| 13. $\frac{5^4}{5^2}$ | 14. $\frac{7^6}{7^9}$ | 15. $\frac{3^5}{3^5}$ |
| 16. $\frac{(-2)^8}{(-2)^3}$ | 17. $\frac{(-3)^3}{(-3)^4}$ | 18. $(5^2)^3$ |
| 19. $(2^4)^2$ | 20. $(3^2)^3$ | 21. $\left(\frac{1}{3}\right)^4$ |
| 22. $\left(\frac{3}{2}\right)^3$ | 23. $\left(-\frac{2}{5}\right)^2$ | 24. $\left(-\frac{1}{4}\right)^3$ |
| 25. 13^0 | 26. $\left(\frac{4}{5}\right)^0$ | 27. 3^{-2} |
| 28. 4^{-3} | 29. $\left(\frac{3}{4}\right)^{-2}$ | 30. $\left(\frac{2}{3}\right)^{-4}$ |

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|--------------------------|------------------------------------|---------------------------------|
| 1. $(3^4)(3^{-2})$ | 2. $(5^2)^3$ | 3. $\left(\frac{2}{3}\right)^3$ |
| 4. $\frac{8^4}{8^6}$ | 5. $(7^6)(7^{-6})$ | 6. $\frac{4 \cdot 4^3}{4^6}$ |
| 7. $\frac{(3^2)^5}{3^8}$ | 8. $\left(\frac{1}{2}\right)^{-4}$ | 9. $\frac{5^6}{(5^3)^2}$ |

Use the properties of exponents to evaluate the expression.

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| 1. $\frac{2^{-4} \cdot 2^5}{2^{-3}}$ | 2. $\frac{(3^2)^3}{3^{-1}}$ | 3. $\frac{(-2)^4(-2)^{-1}}{(-2)^3}$ |
| 4. $\left(\frac{2}{3}\right)^{-3}$ | 5. $\left[\left(\frac{3}{8}\right)^2\right]^2$ | 6. $\frac{\left(\frac{1}{3}\right)^{-3}}{\left(\frac{1}{3}\right)^4\left(\frac{1}{3}\right)^{-2}}$ |