

LESSON

Practice A**2-7****Properties of Exponents**

Multiply. Write the product as one power.

1. $2^2 \cdot 2^3$

2. $3^5 \cdot 3^2$

3. $1^3 \cdot 1^5$

4. $5^4 \cdot 5^3$

5. $8^1 \cdot 8^1$

6. $7^4 \cdot 7^5$

7. $12^1 \cdot 12^2$

8. $4^3 \cdot 4^1$

Divide. Write the quotient as one power.

9. $\frac{2^5}{2^2}$

10. $\frac{10^4}{10^3}$

11. $\frac{4^6}{4^3}$

12. $\frac{(-3)^6}{(-3)^4}$

13. $\frac{5^8}{5^6}$

14. $\frac{24^9}{24^3}$

15. $\frac{(-4)^8}{(-4)^1}$

16. $\frac{1^7}{1^5}$

Write the product or quotient as one power.

17. $\frac{5^7}{5^2}$

18. $4^5 \cdot 4^1$

19. $7^6 \cdot 7^2$

20. $\frac{6^8}{6^4}$

21. $15^7 \cdot 15^7$

22. $3^7 \cdot 3^3$

23. $\frac{20^9}{20^8}$

24. $\frac{2^{10}}{2^8}$

25. The Haywood Paper Company has 5^2 warehouses. Each warehouse holds 5^5 boxes of paper. How many boxes of paper are stored in all the warehouses? Write the answer as one power.

26. Write the expression for 5 used as a factor eight times being divided by 5 used as a factor six times. Simplify the expression as one power.
