

Practice

Multiplying and Dividing Powers

Simplify each expression.

1. $6^3 \cdot 6^2$

2. $7^6 \cdot 7^4$

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

4. $b \cdot b^4$

5. $(g^2)(g^3)(g)$

6. $m(m^8)$

7. $(a^2b^3)(a^4b)$

8. $(xy^5)(x^3y^3)$

9. $(2c^3)(2c)$

10. $(-3x^2)(6x^2)$

11. $(-7xy)(-2x)$

12. $(5m^3n^2)(4m^2n^3)$

13. $(-8ab)(a^2b^5)$

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

15. $\frac{12^8}{12^3}$

16. $\frac{y^4}{y^2}$

17. $\frac{k^6}{k^6}$

18. $\frac{x^4y^5}{x^3y^2}$

19. $\frac{a^9b^6}{a^2b}$

20. $\frac{mn^3}{n^2}$

21. $\frac{15a^3}{3a}$

22. $\frac{8x^5y^4}{4x^2y^2}$

23. $\frac{m^2n}{m^2}$

24. $\frac{6a^5b^7}{-2a^3b^7}$

25. $\frac{-20x^3y^2}{-5x^3y}$

26. $\frac{-16ab^4}{4b^3}$

27. $\frac{12x^2y}{2x^2y}$