NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Multiplying and Dividing Powers Practice**

**When *multiplying* powers, you \_\_\_\_\_\_\_\_\_ the exponents.**

1. x7●x4 2. a5●a4 3. b3●c2●b7●c2 4. x8●y3 ●x●y2
2. 2a7●3a2 6. 5x6●3x4 7. 6b3g4●7b2g7 8. 9xy2●4x3y6

**When dividing powers, you \_\_\_\_\_\_\_\_\_\_\_\_\_ the exponents.**

9. $\frac{x^{7}}{x^{3}}$ 10. $\frac{a^{6}}{a^{4}}$ 11. $\frac{x^{12}y^{9}}{x^{8}y^{}}$ 12. b5 ÷ b2

13. $\frac{9x^{8}}{3x^{3}}$ 14. $\frac{30a^{16}b^{14}}{5a^{4}b^{8}}$ 15. $\frac{18x^{5}y^{8}}{6x^{2}y^{7}}$ 16. 24b8c4 ÷ 3b6c

**Mixed Practice**

17. 6a3●3a9 18. $\frac{27x^{11}}{3x^{3}}$ 19. g5●g8 20. $\frac{x^{5}}{x^{4}}$

21. $\frac{42x^{8}}{7x^{}}$ 14. $\frac{54a^{10}b^{8}}{9a^{4}b^{2}}$ 15. 9b6g8●8b6g7 16. 6bg●9b2g7