

7th Grade
POP QUIZ

Practice 4-7 Exponents and Multiplication

Complete each equation.

1. $9^3 \cdot 9__ = 9^7$

2. $6^8 \cdot 6__ = 6^{17}$

3. $n__ \cdot n^5 = n^{15}$

4. $(a__)^8 = a^{24}$

5. $(c^4)__ = c^{12}$

6. $r__ \cdot r^{12} = r^{20}$

Simplify each expression.

7. $(z^3)^5$ _____

8. $-(m^4)^3$ _____

9. $(-3^2)^3$ _____

10. $(x^3)(x^4)$ _____

11. $y^4 \cdot y^5$ _____

12. $(-y^5)(y^2)$ _____

13. $(3y^2)(2y^3)$ _____

14. $3x^{12} \cdot 2x^3$ _____

15. $m^{30} \cdot m^{12}$ _____

16. $(x^4)(y^2)(x^2)$ _____

17. $(-6x^7)(-9x^{12})$ _____

18. $(h^4)^4$ _____