

Name: _____
Algebra 1

Date: _____
Band: _____

Unit 6: Exponents PBA Practice

Simplify.

1. $a^2b^{-4}c^0$

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

3. $\frac{1}{p^2q^{-4}r^0}$

4. $\frac{5x^0}{y^{-2}}$

5. $\frac{2x}{y^2z^{-1}}$

6. $(x^3y^5)(-y^7x)$

7. $2m^3n^2 \cdot 2m^4n$

8. $(q^3r)^4$

9. $(12x^2y^{-2})^5(4xy^{-3})^{-7}$

10. $(-2r^{-4})^2(-3r^2z^8)^{-1}$

11. $\frac{21x^3}{3x^{-1}}$

12. $\left(\frac{n^5}{v^3}\right)^7$

13. $\left(\frac{3c^3}{e^5}\right)^{-4}$

14. $\left(\frac{5a^8}{10a^6}\right)^{-3}$

15. Is it true that $(-3b)^4 = -12b^4$? Explain why or why not.