

Algebra 2
More Practice with Exponents!

Name: _____
Period: _____

Simplify.

1. $(5x^{-3})^3$
2. $(3x^{-5})^{-2}$
3. $4x^{-5}$
4. $\frac{8x^{-5}}{9x^{-6}}$
5. $\frac{6x^0y^3}{18y^{-4}}$
6. $\frac{6m^{-5}n^{-10}}{8m^8n^7}$
7. $\frac{12x^0}{15x^0}$
8. $x^5(x^{-2}y^{-1})^2$
9. $\frac{(8b^{11})^2}{4b^3}$
10. $(x^6y^{-4})^{-2}(x^2y^5)^4$
11. $\frac{x^8y^3 \cdot 6y^6}{x^{-8}y^5}$
12. $\frac{9a^7b^3 \cdot 2a^{-3}b^8}{3b^7}$
13. $\frac{w^{12}t^6m^3}{m^2t^4w^2}$
14. $5(3j^2k^3m^4)^4$
15. $(3x^5y^2)^2(-2x^3)^3$
16. $4(5v^2p^3)(2vp^2)^2$
17. $\frac{(t^2r^4)^3 \cdot (t^3r^2)^5}{(t^2r^3)^3}$
18. $(gh^{-4})(2g^4h)(2g^2h^{-2})^2$
19. $4z\left(\frac{2xy^2z^{-1}}{4xz}\right)^{-2}$
20. $\frac{15h^3(g^2p^3)^3}{12g^3h^2p^7}$
21. $(3x^{-3}y)^2(-3xy)^2(3x^{-2}y)^{-3}$
22. $\frac{(2x^2y^3)^2 \cdot (-3x^{-5}y^{-3})^3}{9xy^2}$
23. $(2x^{-1}yz^{-2})\left(\frac{1}{2x^{-1}yz^{-2}}\right)$

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