

Properties of Exponents: Day 2

Unit 1: Extending the Number System

Focus on Power of a Power

1. $(2^2y^3)^5$	2. $(p^3q^2)^{-1}$
3. $(5s^{-2}t^4)^{-3}$	4. $(3a^3b^5)^{-3}$
5. $(-2x^{-1}y^2)^3$	6. $(2x^{-5}y^4)^3$
7. $\left(\frac{3x^2}{2}\right)^2$	8. $\left(\frac{2r^{-1}s^2t^0}{2rs}\right)^{-2}$
9. $\left(\frac{xy^2}{2}\right)^2 \cdot \left(\frac{6x}{y^2}\right)^{-3}$	10. $\left(\frac{2ab^6}{a^3b}\right)^{-2}$

$$11. \frac{(5a^2)(6b^3)}{(2a^3)(25b^{-2})}$$

$$12. \left(\frac{p^{-2}q^4r}{p^3q^5} \right)^5$$

$$13. \frac{3^2m^3t^6}{3^5m^7t^{-5}}$$

$$14. \frac{c^2d^{-3}}{c^3d^{-1}}$$

$$15. \frac{28y^5 \cdot 4x^3y^{-1}}{4x^2y^{-4}}$$

$$16. \frac{a^2b^{-2} \cdot 2a^2b^3}{(2a^2b^3)^{-2}}$$

$$17. \left(\frac{7t^3}{21t} \right)^3$$

$$18. \frac{7^9(1^0)^2}{7^7}$$

$$19. \frac{(2a^7)(3a^2)}{6a^3}$$

$$20. \left(\frac{2m^5}{m^2} \right)^{-4}$$