

# Properties of Exponents Worksheet

Name \_\_\_\_\_

Evaluate the expression.

$$1. 4^2 \cdot 4^4$$
$$= 4^6 = 4096$$

$$4. \left(\frac{3}{7}\right)^3$$
$$= 3^3 / 7^3$$
$$= 27/343$$

$$2. (5^{-2})^3$$
$$= 5^{-2 \cdot 3} = 5^{-6} = 1/5^6 = 1/15,625$$

$$5. \frac{2^2}{2^{-9}}$$
$$= 2^{2 - (-9)}$$
$$= 2^{11} = 2048$$

$$3. \frac{5^2}{5^5}$$
$$= 5^{2-5} = 5^{-3} = 1/5^3 = 1/125$$

$$6. (-9)(-9)^2$$
$$= (-9)^{1+2}$$
$$= (-9)^3 = 6561$$

Simplify the expression.

$$7. a^5 \cdot a^3$$
$$= a^{5+3} = a^8$$

$$10. \frac{x^8}{x^5}$$
$$= x^{8-5} = x^3$$

$$13. \left(\frac{4a^3}{2b^4}\right)^2$$
$$= \{ 4^{1 \cdot 2} a^{3 \cdot 2} / 2^{1 \cdot 2} b^{4 \cdot 2} \}$$
$$= \{ 4^2 a^6 / 2^2 b^8 \} = 16a^6 / 4b^8 = 4a^6 / 1b^8$$

$$16. \frac{x^{11}y^{10}}{x^{-3}y^{-1}}$$

$$19. \frac{x^5}{x^{-2}}$$

$$22. (10x^5y^3)^{-2}$$

$$25. \frac{2x^2y}{6xy^{-1}}$$

$$8. (x^5)^2$$
$$= x^{5 \cdot 2} = x^{10}$$

$$11. \frac{x^5}{x^8}$$
$$= x^{5-8} = x^{-3} = 1/x^3$$

$$14. (2^3x^2)^5$$
$$= 2^{3 \cdot 5} x^{2 \cdot 5} = 2^{15} x^{10}$$

$$17. -3x^{-4}y^0$$

$$20. \frac{x^3y^2}{x^4y^0}$$

$$23. \frac{x^{-1}y}{xy^{-2}}$$

$$26. \frac{xy^0}{3y^{-3}} \cdot \frac{-7y}{21x^5}$$

$$9. (4a^2b^3)^5$$
$$= 4^{1 \cdot 5} a^{2 \cdot 5} b^{3 \cdot 5}$$
$$= 4^5 a^{10} b^{15}$$

$$12. \frac{x^0}{x^0}$$
$$= x^{0-0} = x^0 = 1$$

$$15. (x^4y^2)^{-3}$$
$$= 1/(x^{4 \cdot 3}y^{2 \cdot 3})$$
$$= 1/x^{12}y^6 = 1/x^{12}y^6$$

$$18. \frac{5x^3y^0}{20x^2y^{-2}}$$

$$21. (x^3)^0$$

$$24. (4x^2y^3)^{-2}$$

$$27. \frac{12xy}{7x^4} \cdot \frac{7x^3y^2}{4y}$$

# Exploring Exponents Algebra 2

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