

7.2 Day 1 Worksheet
Zero and Negative Exponents

Name _____

Evaluate the exponential expression. Write fraction in simplest form.

1. 4^{-2}

2. 3^{-4}

3. $4(4^{-2})$

4. $-6^0 \cdot \frac{1}{3^{-2}}$

5. $2^{-3} \cdot 2^2$

6. $8^3 \cdot 0^{-1}$

7. $7^4 \cdot 7^{-4}$

8. $-4 \cdot (-4)^{-1}$

9. $(5^{-3})^2$

10. $(-3^{-2})^{-1}$

11. $11 \cdot 11^{-1}$

12. $4^0 \cdot 5^{-3}$

Rewrite the expression with positive exponents.

13. x^{-5}

14. $3x^{-4}$

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

16. $x^{-2}y^4$

17. x^4y^{-7}

18. $8x^{-2}y^{-6}$

19. $\frac{1}{9x^{-3}y^{-1}}$

20. $\frac{1}{4x^{-10}y^{14}}$

21. $(-9)^0x$

22. $(-4x)^{-3}$

23. $(-10a)^0$

24. $(3xy)^{-2}$

25. $(6a^{-3})^3$

26. $\frac{8}{m^{-2}}$

27. $\frac{1}{(4x)^{-5}}$

28. $\left(\frac{3}{x^2}\right)^{-2}$