NAME _____ DATE _____ PERIOD _____

5-2 Practice: Skills

Integer Exponents

Write each expression using a positive exponent.

1. 3^{-4}
2. 8^{-7}
3. 10^{-4}
4. $(-2)^{-6}$
5. $(-40)^{-3}$
6. $(-17)^{-12}$
7. n^{-10}
8. b^{-8}
9. q^{-5}
10. m^{-4}
11. v^{-11}
12. p^{-2}

Write each fraction as an expression using a negative exponent other than -1.

13. $\frac{1}{8^2}$
14. $\frac{1}{10^5}$
15. $\frac{1}{2^3}$
16. $\frac{1}{6^7}$
17. $\frac{1}{17^4}$
18. $\frac{1}{21^2}$
19. $\frac{1}{3^7}$
20. $\frac{1}{9^2}$
21. $\frac{1}{3^2}$
22. $\frac{1}{121}$
23. $\frac{1}{25}$
24. $\frac{1}{36}$

Find each quotient. Rewrite using positive exponents.

25. $\frac{y^{-2}}{y^4}$
26. $\frac{z^{-2}}{z^{-2}}$
27. $\frac{x^{-8}}{x^{-2}}$
28. $\frac{y^{-5}}{y^{-3}}$
29. $\frac{z^{-3}}{z^3}$
30. $\frac{y^{-1}}{y}$
31. $\frac{z^{-4}}{z^{-2}}$
32. $\frac{5^3}{5^{-2}}$
33. $\frac{x^{99}}{x^{-1}}$
34. $(x^2y)^3$
35. $(xy^3z)^5$
36. $(m^2np^4)^2$