

Name _____



Date _____

Multiplication of Exponents

Enter answers
in text boxes.

Simplify. Enter exponent answers as follows: 7^2 is written as 7^2 .

1. $6^{-1} \times 6^{-12}$	2. $4^{-2} \times 4^2$
3. $2^{-11} \times 2^{-1}$	4. $(7) (7^8) (7^{-5})$
5. $3^{-5} \times 3^6 \times 3^{-6} \times 3^{11}$	6. $(8^{-6}) (8^2) (8^{11}) (8^{11})$
7. $(9^{-1}) (9^7) (9^{-2})$	8. $(-5)^3 \times (-5)^4 \times (-5)^7$
9. $(9^4) \left(\frac{1}{9^8}\right) (9^{-1})$	10. $(-3)^{12} \times \left[\frac{1}{(-3)^6}\right]$
11. $(-7)^{11} \times \left[\frac{1}{(-7)^4}\right] \times (-7)^6 \times \left[\frac{1}{7^3}\right]$	12. $\left[\frac{1}{6^8}\right] \times \left[\frac{1}{6^7}\right] \times \left[\frac{1}{6^2}\right] \times \left[\frac{1}{6^3}\right]$
13. $(-4)^8 \times 4^9$	14. $\left(\frac{1}{8^3}\right) \left(\frac{1}{8^{12}}\right) \left(\frac{1}{8^7}\right) \left(\frac{1}{8^3}\right)$
15. $\left[\frac{1}{(-5)^4}\right] (-5)^5 (-5)^{11} (-5)^{11}$	16. $\left[\frac{1}{6^{-5}}\right] \times 6^8$
17. $(-9)^9 \times (-9)^{12} \times (-9)^{-1} \times (-9)^{-4}$	18. $\left(\frac{1}{2^3}\right) \left(\frac{1}{2^{-9}}\right) \left(\frac{1}{2^{-7}}\right)$
19. $(3^4) \left(\frac{1}{3^6}\right) (-3)^2$	20. $\left(\frac{1}{4^6}\right) \left(\frac{1}{4^9}\right) \left(\frac{1}{4^{11}}\right) \left(\frac{1}{4^{11}}\right)$
21. $(-7)^{-8} \times (-7)^5$	22. $\left(\frac{1}{6^9}\right) \left(\frac{1}{6^3}\right) \left(\frac{1}{6^6}\right)$
23. $\left[\frac{1}{8^7}\right] \times \left[\frac{1}{8^{-12}}\right]$	24. $(-0.02)^{12} \times (-0.02)^4 \times (-0.02)^9 \times (-0.02)^8$
25. $(-0.7)^{-10} \times (-0.7)^{-6}$	26. $0.3^{10} \times 0.3^5 \times 0.3^{-3}$