

a ramy Simple Write 124 in scientific notation. This is not a very large number, but it will work nicely for an example. To convert this to scientific notation, I first write "1.24". This is not the same number, but (1.24)(100) = 124 is, and  $100 = 10^2$ . Then, in scientific notation, 124 is written as 1.24 x 102. Actually, converting between "regular" notation and scientific notation is even simpler than I just showed, because all you really need to do is Write in decimal notation Since the exponent on 10 number, so I'll need to move the decimal point to the right, i exponent on 10 is "12", I'll need to move the decimal point tw twelve places over. I make little loops when I count off the places fill in the loops with zeroes: 3,6000000000000 123458384 11 In other words, the number Convert 93,000,000 to This is a large number, so eresting" digit in this number is the leading 9, so that's where ere it is to right after the 9, the decimal be a positive 7, and the answer is 9.3 point will need to move se × 107 Scientific Notation and Standard Form (Decimal Notation) Practice  $0 \times 10^3$  4000 2)  $4.5 \times 10^4$  45,000 3)  $6.5 \times 10^5$  650,000 6  $6 \times 10^2$  760 5)  $8 \times 10^3$  8,000 6)  $6.32 \times 10^7$  63,2000 8) 98,000,000,000  $9.8 \times 10$  9) 373,000  $3.73 \times 10^5$   $4.65 \times 10^8$  8) 98,000,000,000  $9.8 \times 10$  9) 373,000  $3.73 \times 10^7$ e in standard form. 697,000,000,000 6.97×10 11) 54,000,000 5.4 × 107 your calculator to evaluate the following. Write the answer in scientific notation and standard form. Round ree significant digits. Standard form Scientific notation 10 198,000,000,000 712 1.98 x 10 189