

Unit 1 Objective 7

Converting Scientific Notation to Standard Form

-Locate the exponent on the power of 10.

-If it's a **positive exponent**, the number is greater than 1, move the decimal to the right to change the number to standard form.

-If it's a **negative exponent**, the number is less than 1, move the decimal to the left to change the number to standard form.

Example 1: 4.3×10^6

$4.3 \times 10^6 = 4,300,000$ move decimal 6 places to the right

Example 2: 2.1×10^{-4}

$2.1 \times 10^{-4} = 0.0021$ move decimal 4 places to the left

Convert scientific notation to standard form.

1) 8×10^4 _____ 2) 3×10^3 _____

3) 6.5×10^5 _____ 4) 1.3×10^{-3} _____

5) 4.3×10^2 _____ 6) 5.2×10^{-7} _____

7) 8.4×10^6 _____ 8) 2.1×10^2 _____

9) 3.88×10^{-4} _____ 10) 5.67×10^{-3} _____

11) 2.22×10^5 _____ 12) 1.34×10^{-5} _____

13) 6.6×10^{-7} _____ 14) 7.28×10^9 _____

15) 8.99×10^3 _____ 16) 1.23×10^{-4} _____

17) 4.3×10^{-5} _____ 18) 7.99×10^{-1} _____

19) 2.15×10^6 _____ 20) 9.12×10^8 _____