Scientific Notation Positive Exponents Introduction

This set of problems is only going to focus on converting Scientific Notation numbers into standard form. Also, to begin we are only going to work on positive exponents.

Here are a few examples:

$4.3 \, X \, 10^{5} = 430,000$

$6.08 \, X \, 10^{9} = 60,800,000$

$2.3008 \, X \, 10^{14} = 230,080,000,000,000$

The *positive exponent* tells you how many places to *move the decimal point to the right.*

Convert the Scientific Notation to Standard Form	
1) $4.8 \, X \, 10^{7}$ A) 480,000 B) 4,800,000 C) 48,000,000 D) 480,000,000	2) $3.91 \, X \, 10^{5}$ A) 391,000 B) 3,910,000 C) 39,100,000 D) 391,000,000
3) $1.07 \, X \, 10^{3}$ A) 107 B) 1,070 C) 10,700 D) 107,000	4) $6.005 \, X \, 10^{9}$ A) 60,050,000 B) 600,500,000 C) 6,005,000,000 D) 60,050.000,000
5) $7 \, X \, 10^{4}$ A) 70 B) 700 C) 7,000 D) 70,000	6) $3.14 \, X \, 10^{10}$ A) 314,000,000 B) 3,140,000,000 C) 31,400,000,000 D) 314,000,000,000
7) $8.09 \, X \, 10^{2}$ A) 809 B) 8,090 C) 80,900 D) 809,000	8) $5.026 \, X \, 10^{6}$ A) 502,600 B) 5,026,000 C) 50,260,000 D) 502,600,000
9) $2.95 \, X \, 10^{8}$ A) 295,000 B) 2,950,000 C) 29,500,000 D) 295,000,000	10) $5.5 \, X \, 10^{1}$ A) 5.5 B) 55 C) 550 D) 5,500

Answers

1) C	2) A
3) B	4) C
5) D	6) C
7) A	8) B
9) D	10) B

Convert the Scientific Notation to Standard Form (Answers In Bold)	
1) $4.8 \, X \, 10^{7}$ A) 480,000 B) 4,800,000 **C) 48,000,000** D) 480,000,000	2) $3.91 \, X \, 10^{5}$ **A) 391,000** B) 3,910,000 C) 39,100,000 D) 391,000,000
3) $1.07 \, X \, 10^{3}$ A) 107 **B) 1,070** C) 10,700 D) 107,000	4) $6.005 \, X \, 10^{9}$ A) 60,050,000 B) 605,000,000 **C) 6,050,000,000** D) 60,500.000,000
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7) $8.09 \, X \, 10^{2}$ **A) 809** B) 8,090 C) 80,900 D) 809,000	8) $5.026 \, X \, 10^{6}$ A) 502,600 **B) 5,026,000** C) 50,260,000 D) 502,600,000
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