

Scientific Notation Practice

Write the following numbers in decimal form.

1) 2.365×10^5 2) 4.42×10^9 3) 1.98645×10^3 4) 9×10^7

5) 5.94×10^{-2} 6) 7.6428×10^{-7} 7) 8.134×10^{-5} 8) 5×10^{-4}

Write the following numbers in scientific notation.

9) 78,000,000,000,000 10) 0.000000009723 11) 0.0004

12) 845,100,000 13) 2,370,000,000,000 14) 0.000000000242

15) The mass of the Earth is 5.9742×10^{24} kilograms. Write this in decimal notation.

16) A teaspoon is approximately equivalent to 0.005 liters. Write this in scientific notation.

17) In September 2007, a baby in Siberia was born weighing 7,700,000 mg (about 17 pounds!). Write this number in scientific notation.

18) Depending on age and size of the person involved, the intestines can be as long as 1.07×10^{-2} km long. Write this number in decimal notation.

Answers: 1) 236,500 2) 4,420,000,000 3) 1986.45 4) 90,000,000 5) 0.0594
6) 0.00000076428 7) 0.00008134 8) 0.0005 9) 7.8×10^{13} 10) 9.723×10^{-9} 11) 4×10^{-4}
12) 8.451×10^8 13) 2.37×10^{12} 14) 2.42×10^{-10} 15) 5,974,200,000,000,000,000,000,000 kg
16) 5×10^{-3} liters 17) 7.7×10^6 mg 18) 0.0107 km