

Scientific Notation Practice

1. When the number 7312 is expressed in scientific notation, it is written as _____ $\times 10^3$
2. When 3314 is written in scientific notation, the exponent indicating the power of ten will be _____.
3. When the number 4.512×10^3 is written in standard notation, it is expressed _____.
4. When 0.0021 is written in scientific notation, the exponent is (positive/negative), whereas when 4540 is written in scientific notation, the exponent is (positive/negative).
5. For each of the following numbers expressed in scientific notation, write the number as standard notation
 - a. 7.214×10^{-4}
 - b. 6.015×10^5
 - c. 4.299×10^3
 - d. 9.089×10^{-6}
6. For each of the following numbers, if the number is rewritten in standard scientific notation, what will be the value of the exponent for the power of ten?
 - a. 0.000067
 - b. 9,331,442
 - c. 1/10,000
 - d. 163.1×10^2
7. Express each of the following numbers in scientific notation.
 - a. 12,500
 - b. 37,400,000
 - c. 602,300,000,000,000,000,000
 - d. 375
 - e. 0.0202
 - f. 0.1550
 - g. 0.000 0104
 - h. 0.000 000 000 000 000 000 129
8. Mixed practice ... If the number is in scientific notation, write it in standard notation ... If the number is in standard notation, write it in scientific notation.
 - a. 6.9193901×10^7
 - b. 8.114×10^{-3}
 - c. 52.3
 - d. 54,331,000
 - e. 1.801×10^4