

Name: _____

Date: _____

Assignment Handout**Example** Write each number in scientific notation

- | | | | |
|--------------------------|----------------------------|--------------------------|------------------------------|
| a. 0.000 000 6 sec | b. 5 400 000 kg | c. 0.009 mg | d. 273 million km |
| 6.0×10^{-7} sec | 5.4×10^6 kg | 9.0×10^{-3} mg | 2.73×10^8 km |
| e. 71×10^3 L | f. 312×10^{-5} mL | g. 48 900 years | h. 6.7 m |
| 7.1×10^4 L | 3.12×10^{-3} mL | 4.89×10^4 years | 6.7×10^0 m |
| i. 0.000 216 ms | j. 65.2 million s | k. 0.000 000 000 9 mm | l. 0.015×10^{-3} mL |
| 2.16×10^{-4} ms | 6.52×10^7 s | 9.0×10^{-10} mm | 1.5×10^{-5} mL |

Example Write each number in standard notation. Make note of which questions are written in scientific notation.

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|-----------------------------|-----------------------------|-------------------------------|----------------------------|
| a. 9.0×10^{-2} m | b. 38×10^6 s | c. 0.0652×10^{-2} mg | d. 8.4×10^5 years |
| 0.09 m | 38 000 000 s | 0.000652 mg | 840 000 years |
| e. 7.75×10^{-1} mg | f. 1.5×10^{-2} mL | g. 4×10^0 m | h. 804×10^4 kg |
| 0.775 mg | 0.015 mL | 4 m | 8 040 000 kg |
| i. 4×10^{-5} mm | j. 9.052×10^{-7} s | k. 1.71×10^7 km | l. 8.04×10^4 L |
| 0.00004 mm | 0.000 000 905 2 s | 17 100 000 km | 80 400 L |