

MATH HANDBOOK TRANSPARENCY WORKSHEET**1****Scientific Notation****Use with Appendix B,
Scientific Notation****1.** Express each of the following numbers in scientific notation.**a.** 230
_____**b.** 5601
_____**c.** 14 100 000
_____**d.** 56 million
_____**e.** 2/10
_____**f.** 0.450 13
_____**g.** 0.089
_____**h.** 0.000 26
_____**i.** 0.000 000 698
_____**j.** 12 thousandth
_____**2.** Express each of the following measurements in scientific notation.**a.** speed of light in a vacuum, 299 792 458 m/s
_____**b.** number of seconds in a day, 86 400 s
_____**c.** mean radius of Earth, 6378 km
_____**d.** density of oxygen gas at 0°C and pressure of 101 kPa, 0.001 42 g/mL
_____**e.** radius of an argon atom, 0.000 000 000 098 m

MATH HANDBOOK TRANSPARENCY WORKSHEET

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Operations with Scientific Notation

Use with Appendix B,
Operations with
Scientific Notation

1. Perform the following operations and express the answers in scientific notation.

a. $(1.2 \times 10^5) + (5.35 \times 10^6)$

b. $(6.91 \times 10^{-2}) + (2.4 \times 10^{-3})$

c. $(9.70 \times 10^6) + (8.3 \times 10^5)$

d. $(3.67 \times 10^2) - (1.6 \times 10^1)$

e. $(8.41 \times 10^{-5}) - (7.9 \times 10^{-6})$

f. $(1.33 \times 10^5) - (4.9 \times 10^4)$

2. Perform the following operations and express the answers in scientific notation.

a. $(4.3 \times 10^8) \times (2.0 \times 10^6)$

b. $(6.0 \times 10^3) \times (1.5 \times 10^{-2})$

c. $(1.5 \times 10^{-2}) \times (8.0 \times 10^{-1})$

d. $\frac{7.8 \times 10^3}{1.2 \times 10^4}$

e. $\frac{8.1 \times 10^{-2}}{9.0 \times 10^2}$

f. $\frac{6.48 \times 10^5}{(2.4 \times 10^4)(1.8 \times 10^{-2})}$