

## Scientific Notation & Significant Figures Worksheet

Take the following out of Scientific Notation:

- 1)  $5.2 \times 10^3$                       3)  $6.452 \times 10^2$   
2)  $9.65 \times 10^{-4}$                       4)  $8.77 \times 10^{-1}$

Express the following in Scientific Notation:

- 5) 78,000                                  7) 2,687  
6) 0.00053                                8) 0.012654

Solve the following:

- 9)  $(1.2 \times 10^5) + (5.35 \times 10^6)$   
10)  $(6.91 \times 10^{-2}) + (2.4 \times 10^{-3})$   
11)  $(3.67 \times 10^2) - (1.6 \times 10^1)$   
12)  $(8.41 \times 10^{-5}) - (7.9 \times 10^{-6})$   
13)  $(4.3 \times 10^8) \times (2.0 \times 10^6)$   
14)  $(1.5 \times 10^{-2}) \times (8.0 \times 10^{-1})$   
15) a)  $\frac{7.8 \times 10^3}{1.2 \times 10^4}$                       b)  $\frac{8.1 \times 10^{-2}}{9.0 \times 10^2}$

Determine the number of significant figures in:

- 1) 804.05                                  4) 400  
2) 0.0144030                              5) 30,000.  
3) 1002                                      6) 0.000625000

7) Report the number "seven thousand" with the following amounts of significant figures:

- a) 1 sig fig                      b) 4 sig figs                      c) 6 sig figs

Round the following to the # of sig figs indicated:

- 8) Round 2.6765 to two sig figs.  
9) Round 52.8005 to five sig figs.

Solve the following:

- 10)  $(7.31 \times 10^4) + (3.23 \times 10^3)$   
11)  $(8.54 \times 10^{-3}) \times (3.4 \times 10^{-4})$   
12)  $3873.6 / 47.84$   
13)  $4.78 + 3.218 + 5.82$   
14)  $3.40 + 7.34 - 6.45$   
15)  $(0.1285 \times 38.00) / (0.08206 \times 255)$