

## Math 9 – Scientific Notation Assignment

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Put the following numbers into scientific notation.

- 243
- 0.0045
- 123 000
- 240 000 000
- 125 000 000 000
- 0.000 000 756
- 6
- 100
- 0.000874
- 10
- 656.12
- 34.52
- 360.2
- 0.0000035
- 12.33
- 0.022
- 32
- 0.978

### Put the following in standard notation.

- $4.56 \times 10^4$
- $3.4 \times 10^{-1}$
- $2.135 \times 10^7$
- $6.3 \times 10^{-6}$
- $5.3 \times 10^0$
- $1.002 \times 10^2$
- $4.12 \times 10^{-9}$
- $6.5308 \times 10^3$
- $1.0 \times 10^1$
- $1.0 \times 10^{-1}$
- $8.7 \times 10^{-4}$
- $2 \times 10^{-5}$

### Evaluate using your calculator.

- $(2.45 \times 10^5) \times (1.2 \times 10^2)$
- $(5.98 \times 10^9) \div (7.88 \times 10^6)$
- $(3 \times 10^4) + (5 \times 10^3)$
- $(6.2 \times 10^6) - (9.8 \times 10^5)$
- $(4.33 \times 10^2)(6.67 \times 10^4)$
- $\frac{8.13 \times 10^7}{(6.5 \times 10^3)}$

### Do some research to answer the following:

- Find the distance (in km) in scientific notation from the earth to Pluto (closest distance).
- Find the radius (in m) in scientific notation of a hydrogen atom.