

Chem 20 Rev. A

Getting to know your calculator

1. Using your calculator, find the answers to the following problems

*Note: * means multiple*

a. $(24.5 + 6) * 13 =$

b. $13 + 11 * 17 =$

c. $62 + 3 * -12 =$

d. $\frac{132.3 + 13.7}{14.54} =$

e. $\frac{22.8 + 2.9 - 34.5}{64.6} =$

f. $\frac{123.4}{551.6 * 1.8} =$

g. $\frac{(2.56 + 18.87)(23.4 + 21)}{109.55(83.4 - 11.88)} =$

2. Find the answer to the following questions that involve scientific notation.

Note: You will need to use the "EE" or "EXP" when do these questions (like all questions involving scientific notation).

a. $(5.22 * 10^{42})(8.92 * 10^8) =$

b. $(8.34 * 10^{12})(3.70 * 10^{32}) =$

c. $(9.63 * 10^{-8})(7.65 * 10^{19}) =$

d. $(4.14 * 10^{-12})(7.43 * 10^{-3}) =$

e. $\frac{8.48 * 10^{12}}{2.23 * 10^5} =$

f. $\frac{9.97 * 10^7}{4.23 * 10^{10}} =$

g. $\frac{2.62 * 10^8}{9.62 * 10^{-3}} =$

h. $\frac{9.11 * 10^{-9}}{2.97 * 10^5} =$

i. $\frac{(2.44 * 10^5)(4.62 * 10^{12})}{6.87 * 10^{-7}} =$

j. $10^5(3.22 * 10^{34}) =$

k. $\frac{4.23 * 10^3}{10^{-18}} =$

l. $\frac{6.23 * 10^9}{(7.76 * 10^6)(3.54 * 10^{22})} =$

m. $\frac{7.54 * 10^{22}}{(2.46 * 10^{23})(4.56 * 10^{-17})(3.22 * 10^{-5})} =$

n. $\frac{(5.33 * 10^7)(8.87 * 10^{34})}{(2.5 * 10^3)(3.19 * 10^{15})} =$

o. $(2.56 * 10^{12})(10^9) =$

p. $(10^{51})(10^{22}) =$

q. $\frac{(3.3 * 10^7)(8.87 * 10^{34})}{(8.53 * 10^3)(10^{15})} =$

r. $(3.46 * 10^{13})(8.56 * 10^{17})(2.22 * 10^{14}) =$

s. $\frac{(10^7)(10^{42})}{(10^{25})} =$

3. Describe how you might separate each mixture into two or more components:

a. salt dissolved in water.

b. iron and aluminum nails

c. salt and pepper.

4. Solve the following equations for x.

a. $10 - 7 = x - 5$

b. $\frac{28 * 3}{5} = 2x$

c. $5x = (4.2)(3.2)(112)$

d. $32x = (7.3 * 10^7)(8.87 * 10^{34})$