## **Review Questions for Test #1**

Use the order of operations to simplify the following expressions

1) 
$$\frac{[|-8|-(-4\times7\div2)][-15-(14\div-2)]}{(647-254)^3-3^5\div4}$$

2) 
$$14-[(-3)\times\sqrt{64}]+[31(54-873)(21-76)^3+45^0]$$

Solve the following expressions using the methods we learned in class

3) 
$$\frac{10^{-2} \times 10^{-6} \times 10^{3}}{10^{3} \times 10^{6} \times 10^{-4}}$$

$$\frac{\left(\frac{10^{-34}}{10^{18}}\right)^{-2}}{\left(\frac{10^{28}}{10^{-37}}\right)^{6}}$$

4) 
$$\frac{23.4 \times 16 \times 10^7}{12 \times 10^4 + (8.2 \times 10^2)^3}$$

5) 
$$\frac{1}{6.284 \times 10^{-5}} + \frac{1}{8340} - \sqrt{2916}$$

$$6) \quad \frac{1}{\frac{1}{8140} - \frac{1}{3490} + \frac{1}{6540}}$$

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7) 28.5 x 10 <sup>-6</sup> J =	TJ =	nJ
1 / 20.0 X 10 0	10	110

Solve the following questions
10) Convert 2.64 to % =
11) Convert 6329% to decimal =
12) Convert 0.00000254 to scientific notation =
13) Convert 3.57 x 10 <sup>8</sup> to decimal =
14) Round 8643.256957 to the nearest thousandths =

$$\frac{1}{(547-254)^{3}-35\div 4}$$

$$\frac{8+14}{60698457-60.75}$$

$$\frac{(22)(-8)}{60698396.25}$$

$$\frac{-176}{60698396.25}$$

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$$|Y-[(-3)\times\sqrt{64}]+[31(54-873)(21-76)^{3}+45^{\circ}]$$
  
 $|Y-[-3\times8]+[31(-819)(-55)^{3}+1]$   
 $|Y-[-24]+[31(-819)(-166375)+1]$   
 $|Y-[-24]+[4224094875+1]$   
 $|Y-[-24]+[4224094875+1]$   
 $|Y-[-24]+[4224094875+1]$ 

$$\frac{3}{16^{-2} \times 10^{-4} \times 10^{-3}} = \frac{10^{3-6-2}}{10^{3+6-4}} = \frac{10^{-5}}{10^{5}} = \frac{10^{-5-5}}{10^{5}} = \frac{10^{-5-5}}{10^{5}}$$

$$\frac{16^{-2} \times 10^{-4} \times 10^{-4}}{10^{18}} = \frac{10^{-3+6-2}}{10^{3+6-4}} = \frac{10^{-5}}{10^{5}} = \frac{10^{-5-5}}{10^{5}} = \frac$$

$$\frac{1}{6.284 \times 10^{-5}} + \frac{1}{8340} - \sqrt{2916}$$

$$\frac{1}{6.284 \times 10^{-5}} + 1.199 \times 10^{-4} - 54$$

$$0.1591 \times 10^{5} + 1.199 \times 10^{-4} - 54$$

$$15856.600 = \sqrt{1.586 \times 10^{4}}$$

$$\frac{1}{8140} - \frac{1}{3490} + \frac{1}{6540} = \frac{1}{1.228 \times 10^{-4} - 2.865 \times 10^{-4} + 1.529 \times 10^{-4}}$$

$$= \frac{1}{-0.108 \times 10^{-4}} = \sqrt{-9.259 \times 10^{4}}$$

$$\frac{28.5 \times 10^{-6} \text{ J}}{10^{12} \text{ J}} = \frac{28.5 \times 10^{-6} \text{ J}}{10^{12}} = \frac{28.5 \times 10^{-6} \text{ J}}{10^{12}} = \frac{28.5 \times 10^{-6} \text{ J}}{10^{12}} = \frac{28.5 \times 10^{-6} \text{ J}}{10^{-9} \text{ J}} = \frac{28.5 \times 10$$

9 
$$167.9 \times 10^{8} \text{ fL} \rightarrow \text{tbsp}$$

$$\frac{3 + \text{sp} = 1 + \text{bsp}}{1 + \text{sp} = 4.93 \text{ m.L}}$$

$$\frac{167.9 \times 10^{8} \text{ f.C}}{1 \text{ f.C}} = \frac{167.9 \times 10^{-8} \text{ k.C}}{1 \text{ f.C}} = \frac{167.9 \times 10^{-7} \text{ l.c}}{1 \text{ f.C}} = \frac{167.9 \times 10^{-7} \text{ l.c}}{1 \text{ f.C}} = \frac{167.9 \times 10^{-7} \text{ m.L}}{10^{-3} \text{ l.c}} = \frac{167.9 \times 10^{-4} + \text{sp}}{1 + \text{sp}} = \frac{3.406 \times 10^{-3} + \text{lsp}}{3 + \text{sp}} = \frac{3.406 \times 10^{-3} + \text{lsp}}{3 + \text{sp}} = \frac{3.406 \times 10^{-3} + \text{lsp}}{1 + \text{sp}} = \frac{3.406 \times 10^{-3} + \text{lsp}}{1 + \text{sp}} = \frac{167.9 \times 10^{-7} \times 10^{-7}$$

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(11) Convert 6329 % to decimal

63 29% = 100 = 63.29

(12) Convert 0.000000254 to sci. not.

2.54 ×10-6

(13) Convert 3.57x10° to decimal

3.57 x10 \$
35700000;
357000000

(14) Roud to nearest thousandths 8643.256957 8643.257000