

Gen Chem I (CHM 201) Fall 18 Dr. Hahn MWF 8 am Quiz I form A 8/27M Exam # NW = no work
 Name key Name pink
 Sign BA = bad attempt Print NA = not attempt.

Please **show work on all questions** for full credit & partial credit. (20 total pts) "confidence booster"

1. 100 centimeter equals one meter or one cm = 10^{-2} or $\frac{1}{100}$ meters (6 pt, 3 pts each)

2. Significant Figures: (4 pts)

a. How many significant figures is in the following numbers ?

not significant
 0.0072380 5 (1 pt)

b. significant figures in calculation (3 pts)

$(87.91 * 7.0001) \div 2.10 = 293.0375195$ (calculator number)

A B C
4 A 5 B 3 C

Give the number of significant figures for each number in the calculation

(1/2 pt each blank)

Give the final answer with significant figures rounding up as necessary.

293 s.f. - 1/2 (1.5 pts)

3. Convert from 1.78 pounds to milligrams. (453.6 g = 1 pound, 1000 mg = 1 gram) (10 pts) Show work.

$$1.78 \text{ pound} \times \frac{453.6 \text{ g}}{1 \text{ pound}} \times \frac{1000 \text{ mg}}{1 \text{ g}} = 807408 \text{ mg}$$

to 2 sig fig 8.07×10^5 mg math - 1/2 pt
 or 807000 (ambiguous) mg BA = -5
attempt -2

Extra Credit Question Convert 75.2 °F to °C [T (Celsius) = {T(Fahrenheit) - 32} * (5/9)] Show work. (4 pts)

$$T(^{\circ}\text{C}) = \{75.2^{\circ}\text{F} - 32\} * 5/9 = 24.0^{\circ}\text{C}$$

math/algebra 1/2

Name key Name NW = no work
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Please show work on all questions for **full credit & partial credit**. (20 total pts) "confidence booster"

1. 1000 milligrams = 1 gram. or one mg = $\frac{1}{1000}$ or 10^{-3} grams (6 pt, 3 pts each)
upside down -1/2

2. Significant Figures: (4 pts)

a. How many significant figures is in the following numbers ?

72380.00000 10 (1 pt)

b. significant figures in calculation (3 pts)

$98.790 - 20.1 + 1.0001 = 79.6981$ (calculator number)

A B C
5 A 3 B 5 C

$$\begin{array}{r} 98.790 \\ - 20.1 \\ + 1.0001 \\ \hline 79.6901 \end{array}$$

Give the number of significant figures each number in the calculation (1/2 pt each blank)

s.f. - 1/2

Give the final answer with significant figures rounding up as necessary. 79.7 (1.5 pts) (show work)

3. Convert from 1.78 pints to kiloliters (2 pints = 1 quart, 1 Liter = 1.06 quarts, 1000 liter = 1 kiloliter) (10 pts) Show work.

$$1.78 \text{ pint} \times \frac{1 \text{ quart}}{2 \text{ pint}} \times \frac{1 \text{ liter}}{1.06 \text{ quart}} \times \frac{1 \text{ kiloliter}}{1000 \text{ liter}} =$$

8.39×10^{-4} kiloliter
1 pt

*math - 1/2 pt
 BA - 5
 attempt - 2*

Extra Credit Question Convert from 99.2 °C to °F. [T (Fahrenheit) = { T (Celsius) * (9/5) } + 32]

(4 pts) $T(^{\circ}\text{F}) = \left\{ (99.2^{\circ}\text{C}) * \left(\frac{9}{5}\right) \right\} + 32 = 210.56^{\circ}\text{F}$
math/algebra - 1
 211 °F

Name _____ Name _____
Sign _____ Print _____

Please **show work on all questions** for **full credit & partial credit**. (20 total pts) “confidence booster”

1. _____ centimeter equals one meter or one cm = _____ meters (6 pt, 3 pts each)

2. Significant Figures: (4 pts)

a. How many significant figures is in the following numbers ?

0.0072380 _____ (1 pt)

b. _____ significant figures in calculation (3 pts)

$(87.91 * 7.0001) \div 2.10 = 293.0375195$ (calculator number)

A B C

_____ A _____ B _____ C

Give the number of significant figures for each number in the calculation

(1/2 pt each blank)

Give the final answer with significant figures rounding up as necessary. _____ (1.5 pts)

3. Convert from 1.78 pounds to milligrams. (453.6 g = 1 pound, 1000 mg = 1 gram) (10 pts) Show work.

Extra Credit Question Convert 75.2 °F to °C [T (Celsius) = {T(Fahrenheit) – 32} * (5/9)] Show work. (4 pts)

Name _____ Name _____
Sign _____ Print _____

Please **show work on all questions** for **full credit & partial credit**. (20 total pts) "confidence booster"

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a. How many significant figures is in the following numbers ?

72380.00000 _____ (1 pt)

b. significant figures in calculation (3 pts)

$98.790 - 20.1 + 1.0001 = 79.6981$ (calculator number)

A B C

_____ A _____ B _____ C

Give the number of significant figures each number in the calculation
(1/2 pt each blank)

Give the final answer with significant figures rounding up as necessary. _____ (1.5 pts) (show work)

3. Convert from 1.78 pints to kiloliters (2 pints = 1 quart, 1 Liter = 1.06 quarts, 1000 liter = 1 kiloliter) (10 pts)
Show work.

Extra Credit Question Convert from 99.2°C to $^{\circ}\text{F}$. [$T(\text{Fahrenheit}) = \{T(\text{Celsius}) * (9/5)\} + 32$]
(4 pts)