

Name Key Name \_\_\_\_\_  
(print name) (sign name)

Please show all work for full credit and to get partial credit. "Confidence Booster"

1. Circle the following which is an element (not a compound). (You may circle all or none.) (3 pts each, 6 pts)

a.  $H_2$  has 2 atoms but same element  
b.  $H_2O_2$  has 2 elements

2. Fill in the blanks. (3 pts each, 6 pts)

a. 1 kilogram = 1000 grams  
b. 1 cm = 0.01 meters =  $10^{-2} = \frac{1}{100} m$

3. Convert 89.78 kilometers to meters. (show work) (8 pts)

$89.78 km \times \frac{1000 m}{1 km} = 89780 m$   
4 sig fig      infinite sig fig      4 sig fig  
 $8.978 \times 10^4 m$

Extra Credit: How many significant figures is in the following number? 3 pts

0.007820  
leading zeros not significant  
number of significant figures 4  
trailing zero to right of decimal is significant

Name \_\_\_\_\_  
(print name)

Key

Name \_\_\_\_\_  
(sign name)

Please show all work for full credit and to get partial credit. "Confidence Booster"

1. Circle the following which is a compound (not an element). (You may circle all or none.) (3 pts each, 6 pts)

a. H<sub>2</sub>

b. H<sub>2</sub>O<sub>2</sub>

2 different elements  
not variable composition  
mixture

2. Fill in the blanks. (3 pts each, 6 pts)

a. 1 meter = 1000 millimeters

b. 1 gram = 10<sup>-3</sup> = 0.001 =  $\frac{1}{1000}$  kilogram

3. Convert 230.2 milliliters to liters (show work) (8 pts)

$$230.2 \cancel{\text{ mL}} \times \frac{1 \text{ L}}{1000 \cancel{\text{ mL}}} = 0.2302 \text{ L}$$

4 sig figs                      ↑ infinite # sig fig definition

4 sig. figs

Extra Credit: How many significant figures is in the following number? 3 pts

78.200

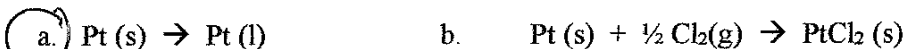
← trailing zero to right of decimal point  
number of significant figures 5 is significant

Name Key  
(print name)

Name \_\_\_\_\_  
(sign name)

Please show all work for full credit and to get partial credit. "Confidence Booster"

1. Circle the following which is a physical change (not a chemical change) (3 pts each, 6 pts)  
(you may circle all or none)



melting - same chemical on both side of

2. Fill in the blanks. (3 pts each, 6 pts)

Arrow

a. 1 liter = 100 centiliter

d. 1 millimeter =  $10^{-3} = \frac{1}{1000} = 0,001$  meter

3. Convert 1230.2 centimeters to meters (show work) (8 pts)

$$\frac{1230.2 \text{ cm}}{100 \text{ cm}} = 12.302 \text{ m}$$

5 sig fig                      5 sig fig

↑  
definition  
infinite #  
of sig fig

Extra Credit: How many significant figures is in the following number ? 3 pts

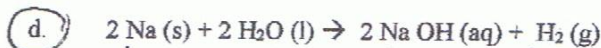
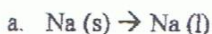
780.2                      number of significant figures 4

internal zero + non zero # are always significant

Name Ken Name \_\_\_\_\_  
 (print name) (sign name)

Please show all work for full credit and to get partial credit. "Confidence Booster"

1. Circle the following which is a chemical change (not a physical change). (3 pts each, 6 pts)  
 (you may circle all or none)



atoms rearranged between reactants + products

2. Fill in the blanks. (3 pts each, 6 pts)

a. 1 meter = 100 centimeter

b. 1 kiloliter = 10<sup>-3</sup> = 0.001 =  $\frac{1}{1000}$  liters

= 1000 liters

3. Convert 3335.2 milligrams to grams (show work) (8 pts)

$3335.2 \text{ mg} \times \frac{1 \text{ g}}{1000 \text{ mg}} = 3.3352 \text{ g}$

5 sig fig

↑  
 definition  
 infinite  
 # of  
 sig fig

5 sig fig

error on answer key

Extra Credit: How many significant figures is in the following number? 3 pts

8.205  $\times 10^{-4}$

number of significant figures 4

count all non zero # + internal zeros as significant

Quiz I General Chemistry I Lecture Fall 14 Dr. Hahn 20 pts 8/27 W 9:30am form A quiz # \_\_\_\_\_

Name \_\_\_\_\_ Name \_\_\_\_\_  
(print name) (sign name)

Please show all work for full credit and to get partial credit. "Confidence Booster"

1. Circle the following which is an element (not a compound). (You may circle all or none.) (3 pts each, 6 pts)

a.  $H_2$                       b.  $H_2O_2$

2. Fill in the blanks. (3 pts each, 6 pts)

a. 1 kilogram = \_\_\_\_\_ grams      b. 1 cm = \_\_\_\_\_ meters

3. Convert 89.78 kilometers to meters. (show work) (8 pts)

Extra Credit: How many significant figures is in the following number ? 3 pts

0.007820                      number of significant figures \_\_\_\_\_

Quiz I General Chemistry I Lecture Fall 14 Dr. Hahn 20 pts 8/27 W 9:30am form B quiz # \_\_\_\_\_

Name \_\_\_\_\_ Name \_\_\_\_\_  
(print name) (sign name)

Please show all work for full credit and to get partial credit. "Confidence Booster"

1. Circle the following which is a compound (not an element). (You may circle all or none.) (3 pts each, 6 pts)

a.  $H_2$

b.  $H_2O_2$

2. Fill in the blanks. (3 pts each, 6 pts)

a. 1 meter = \_\_\_\_\_ millimeters    b    1 gram = \_\_\_\_\_ kilogram

3. Convert 230.2 milliliters to liters (show work) (8 pts)

Extra Credit: How many significant figures is in the following number ? 3 pts

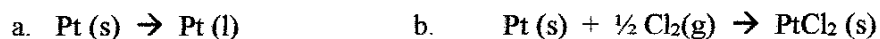
78.200                      number of significant figures \_\_\_\_\_

Quiz I General Chemistry I Lecture Fall 14 Dr. Hahn 20 pts 8/27 W 10:30am form A quiz # \_\_\_\_\_

Name \_\_\_\_\_ Name \_\_\_\_\_  
(print name) (sign name)

Please show all work for full credit and to get partial credit. "Confidence Booster"

1. Circle the following which is a physical change (not a chemical change) (3 pts each, 6 pts)  
(you may circle all or none)



2. Fill in the blanks. (3 pts each, 6 pts)

a. 1 liter = \_\_\_\_\_ centiliter                      d. 1 millimeter = \_\_\_\_\_ meter

3. Convert 1230.2 centimeters to meters (show work) (8 pts)

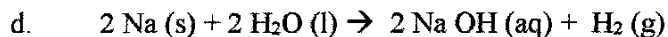
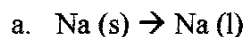
Extra Credit: How many significant figures is in the following number ? 3 pts

780.2                      number of significant figures \_\_\_\_\_

Name \_\_\_\_\_ Name \_\_\_\_\_  
(print name) (sign name)

Please show all work for full credit and to get partial credit. "Confidence Booster"

1. Circle the following which is a chemical change (not a physical change). (3 pts each, 6 pts)  
(you may circle all or none)



2. Fill in the blanks. (3 pts each, 6 pts)

a. 1 meter = \_\_\_\_\_ centimeter

b. 1 kiloliter = \_\_\_\_\_ liters

3. Convert 3335.2 milligrams to grams (show work) (8 pts)

Extra Credit: How many significant figures is in the following number ? 3 pts

$8.205 \times 10^{-4}$  number of significant figures \_\_\_\_\_