

Name Key Name BA = bad attempt
 Sign _____ Print (bc I can't read signatures)

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

1. Use density as a conversion factor to convert from 0.000234 quarts of a liquid pharmaceutical (density of pharmaceutical = 2.309 g/mL) to grams of the medicine. You are the person who accurately weighs out the medicine into small cups (which will be diluted with water in the medicine cup for patients and if you give the patient too much, the patient will go into cardiac arrest and die. (1 Liter = 1.06 quart) (8 pts)

NA = not attempt NW = now work

$$0.000234 \text{ quart} \times \frac{1 \cancel{\text{L}}}{1.06 \text{ quart}} \times \frac{1000 \cancel{\text{mL}}}{1 \cancel{\text{L}}} \times \frac{2.309 \text{ g}}{1 \text{ mL}}$$

(2pt) (2pt) (2pt) (2pt)

= 0.510 gram pharmaceutical

*BA - 4
extra step - 1*

2. What element symbol has atomic number of 34? Se (4 pts)

3. For the element Mn

a. Give the atomic number 25 (1 pt) b. Give the atomic mass number 54.94 (1 pt)

c. Write out the symbol for the element in the format ${}^A_Z \text{Mn}$ (2 pts) *Upside down - 1*

d. How many protons does the element have? 25 (1 pt)

e. How many electrons does the element have? 25 (1 pt)

f. How many neutrons does the element have? 30 (1 pt) *(29 OK)*

g. Show work for # neutrons _____ (2 pts) *55 - 25 = 30*

Extra Credit Question (3 pts)

1. What is the likely charge for the element Ba? +2 Show work or explain. (1 pt)

Group # 2A → (+2) (NW - 1/2)

2. What is the group number for the element? 2A (1/2 pt)

3. What is the period number for the element? 6 (1/2 pt)

4. Is the element a (metal) or (nonmetal) (circle one)? (1/2 pt)

5. Name the compound given below (given the element names). K₂S (1/2 pt)

(potassium sulfur) ide potassium sulfide
(rewriting above - 1/2 pt) (Spelling - 0 pt) no pts off

Name Key
 Sign _____

Name BA = bad attempt
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Please **show work on all questions** for full credit & partial credit. (20 total pts)

green

NA = not attempted

NW = no work

1. Use density as a conversion factor to convert from 0.00789 quarts of a liquid pharmaceutical (density of pharmaceutical = 1.292 g/mL) to grams of the medicine. You are the person who accurately weighs out the medicine into cups (which will be diluted with water in the medicine cup for patients and if you give the patient too much, the patient will go into cardiac arrest and die. (1 Liter = 1.06 quart) (8 pts)

$$0.00789 \text{ quart} \times \frac{1 \cancel{\text{L}}}{1.06 \text{ quart}} \times \frac{1000 \cancel{\text{mL}}}{1 \cancel{\text{L}}} \times \frac{1.292 \text{ g}}{1 \text{ mL}}$$

2pt 2pt 2pt 2pt

9.62 g

BA - 4

extra step - 1

2. What element symbol has atomic number of 36? Kr (4 pts)

3. For the element **Ba**

- a. Give the atomic number 56 (1 pt) b. Give the atomic mass number 137.3 (1 pt)

- c. Write out the symbol for the element in the format ${}^A_Z \text{E}$ ${}^{137}_{56} \text{Ba}$ (2 pts) 1 pt

- d. How many protons does the element have? 56 (1 pt)

- e. How many electrons does the element have? 56 (1 pt)

- f. How many neutrons does the element have? 81 (1 pt) $137 - 56 = 81$

- g. Show work for # neutrons _____ (2 pts)

Extra Credit Question (3 pts)

1. What is the likely charge for the element **Te**? -2 Show work or explain. (1 pt)

$$6 - 8 = -2$$

NW - 1/2 pt

2. What is the group number for the element? 6A (1/2 pt)

3. What is the period number for the element? 5 (1/2 pt)

4. Is the element a [(metal) or (nonmetal)](circle one)? (1/2 pt)

Spelling = 2p
 no pts off

5. Name the compound given below (given the element names). **Mg₃P₂** (1/2 pt)

(magnesium phosphorus)ide magnesium phosphide

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1. Use density as a conversion factor to convert from 0.000234 quarts of a liquid pharmaceutical (density of pharmaceutical = 2.309 g/mL) to grams of the medicine. You are the person who accurately weighs out the medicine into small cups (which will be diluted with water in the medicine cup for patients and if you give the patient too much, the patient will go into cardiac arrest and die. (1 Liter = 1.06 quart) (8 pts)

2. What element symbol has atomic number of 34 ? _____ (4 pts)

3. For the element Mn

a. Give the atomic number _____ (1 pt) b. Give the atomic mass number _____ (1 pt)

c. Write out the symbol for the element in the format ${}^A_Z\text{E}$ _____ (2 pts)

d. How many protons does the element have ? _____ (1 pt)

e. How many electrons does the element have ? _____ (1 pt)

f. How many neutrons does the element have ? _____ (1 pt)

g. Show work for # neutrons _____ (2 pts)

Extra Credit Question (3 pts)

1. What is the likely charge for the element Ba ? _____ Show work or explain. (1 pt)

2. What is the group number for the element ? _____ (1/2 pt)

3. What is the period number for the element ? _____ (1/2 pt)

4. Is the element a [(metal) or (nonmetal)] (circle one) ? (1/2 pt)

5. Name the compound given below (given the element names). K_2S (1/2 pt)

(potassium sulfur)

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2. What element symbol has atomic number of 36 ? _____ (4 pts)

3. For the element Ba

a. Give the atomic number _____ (1 pt) b. Give the atomic mass number _____ (1 pt)

c. Write out the symbol for the element in the format ${}^A_Z E$ _____ (2 pts)

d. How many protons does the element have ? _____ (1 pt)

e. How many electrons does the element have ? _____ (1 pt)

f. How many neutrons does the element have ? _____ (1 pt)

g. Show work for # neutrons _____ (2 pts)

Extra Credit Question (3 pts)

1. What is the likely charge for the element Te ? _____ Show work or explain. (1 pt)

2. What is the group number for the element ? _____ (1/2 pt)

3. What is the period number for the element ? _____ (1/2 pt)

4. Is the element a [(metal) or (nonmetal)] (circle one) ? (1/2 pt)

5. Name the compound given below (given the element names). Mg₃P₂ (1/2 pt)

(magnesium phosphorus)