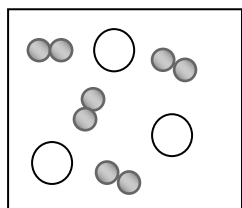


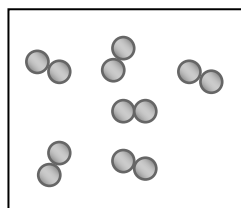
12. (10 pts) Please write the correct name for each element listed (spelling counts!):

- a. K _____
- b. Ca _____
- c. Al _____
- d. S _____
- e. B _____

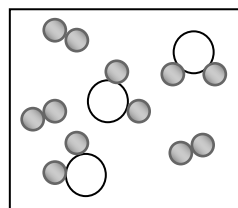
13. (5 pts) Which picture best describes a mixture of two elements? (circle one)



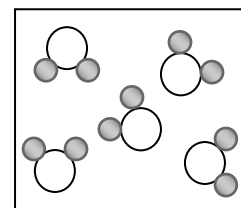
a.



b.



c.



d.

14. (5 pts) Circle all of the following that are physical changes:

burning

melting

evaporating

grinding

bubbling

15. (6 pts) Convert 3.46 feet into centimeters.

16. (6 pts) A 100-mL graduated cylinder contains 54.6 mL of water. A 4.5290 g object is placed in the cylinder. The volume reads 68.0 mL after the object is placed in the cylinder. What is the density of the object?

17. (6 pts) The total mass of a 25.0% salt solution is 45.70 g. How many grams of salt are in the solution?

18. (6 pts) Convert 55°C into °F.

19. (6 pts) Sodium metal reacts with chlorine gas to make solid sodium chloride. A student wants to make 13.0 g of sodium chloride, NaCl. If the student has 4.68 g of chlorine gas, how much sodium metal does the student need?

20. (3 pts) Write the correct *formula* for **three** of the seven diatomic elements.

21. (3 pts) Please complete the following sentence with the correct word:

A _____ mixture contains substances that can be separated by physical means (e.g., filtration).

Extra credit:

Write the name of the following compounds (2 pts each and spelling counts!)

a. MgO _____

b. Na₂S _____

c. AlCl₃ _____