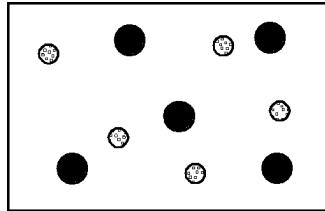


Name: \_\_\_\_\_

- 1) Matter is defined as anything that occupies space and has  
A) mass                    B) a definite shape                    C) odor                    D) color
  
- 2) Which pair is classified as a substance?  
A) compounds and mixtures                    B) elements and compounds  
C) elements and mixtures                    D) elements and solutions
  
- 3) Which of the following can not be decomposed into simpler substances?  
A) mixtures                    B) solutions                    C) compounds                    D) elements
  
- 4) Which could be the chemical formula of an element?  
A) Ab                    B) AB                    C) aB                    D) ab
  
- 5) Element A and element B become chemically bonded together to form substance C. Substance C must be  
A) a solution                    B) a mixture                    C) an element                    D) a compound
  
- 6) Which of the following statements describes a characteristic of all compounds?  
A) Compounds can be decomposed by physical means.      B) Compounds contain one element, only.  
C) Compounds can be decomposed by chemical means.      D) Compounds contain two elements, only.
  
- 7) Which of the following is a characteristic of a compound?  
A) Its chemical composition can vary.                    B) It is homogeneous.  
C) It can be decomposed by physical means.                    D) It can consist of a single element.
  
- 8) Any sample of a compound  
A) can consist of one element                    B) can have a varied chemical composition  
C) is homogeneous                    D) can be decomposed by a physical change
  
- 9) Which of the following is an example of a compound?  
A) Ar                    B) CO<sub>2</sub>                    C) O<sub>2</sub>                    D) Na
  
- 10) Which of the following is not a diatomic gas?  
A) chlorine                    B) nitrogen                    C) hydrogen                    D) neon
  
- 11) At 1 atmosphere and 20°C, all samples of H<sub>2</sub>O(ℓ) must have the same  
A) volume                    B) mass                    C) density                    D) weight

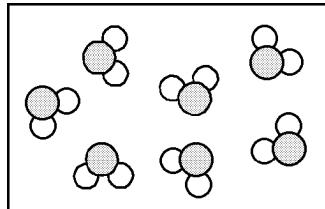
- 12) The particle diagram below represents a sample of matter.



Which best describes the composition of the sample?

- A) a single compound    B) a mixture of elements    C) a mixture of compounds    D) a single element

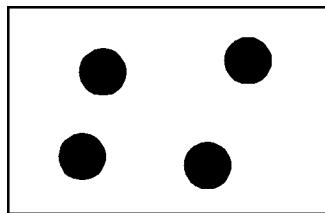
- 13) The particle diagram below represents a sample of matter.



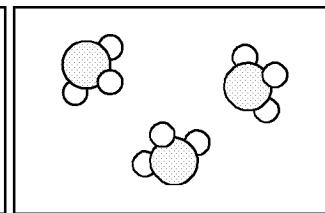
Which best describes the composition of the sample?

- A) a mixture of elements    B) a mixture of compounds    C) a single element    D) a single compound

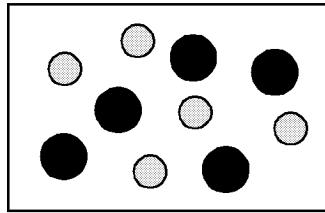
**Questions 14 through 18 refer to the following:**



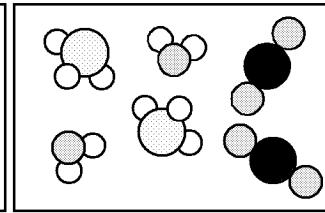
(A)



(B)



(C)



(D)

- 14) Which particle diagram show best represents a single element?

- A) C                      B) B                      C) A                      D) D

- 15) Which particle diagram shown best represents a single compound?

- A) B                      B) A                      C) C                      D) D

- 16) Which particle diagram shown best represents a mixture of elements?

- A) C                      B) B                      C) A                      D) D

17) Which particle diagram shown best represents a mixture of compounds?

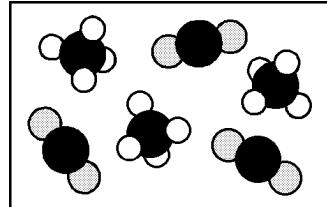
- A) A                            B) B                            C) C                            D) D

18) Which particle diagram shown best represents a heterogeneous sample of matter?

- A) A                            B) B                            C) C                            D) D

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19) The particle diagram below represents a sample of matter.



Which best describes the composition of the sample?

- A) a mixture of compounds    B) a single element    C) a mixture of elements    D) a single compound