

Unit 6 – Exercise 6 Substance vs Mixture

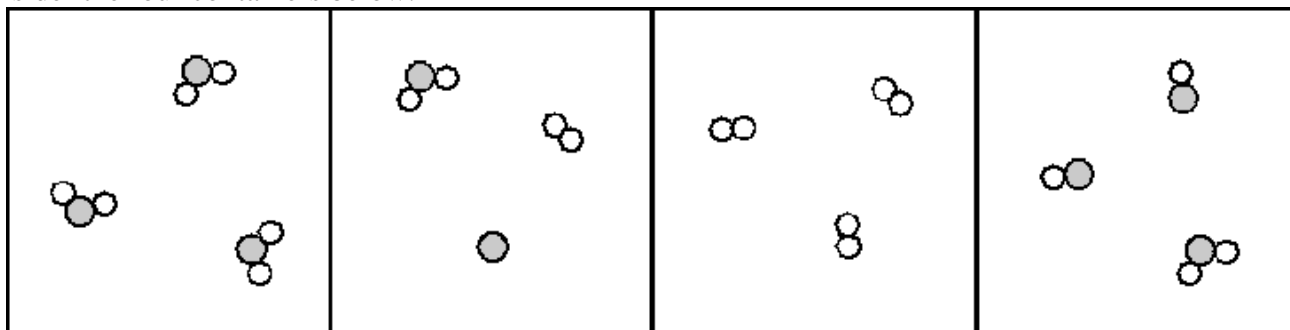
1. Describe a way to separate a mixture of sand and salt?
2. Describe a way to separate a mixture of salt and water?
3. Explain why using a filter would not be effective in separating a mixture of salt and sugar.
4. Draw particle representations for the following:

A mixture of iron and sulfur	A compound of iron and sulfur

5. Explain why a magnet can separate iron particles from the mixture but not from the compound.

6. Based on the particle diagram given in each box for questions 7, 8 & 9 label the material as a solid, liquid or gas

7. Consider the four containers below.



A

B

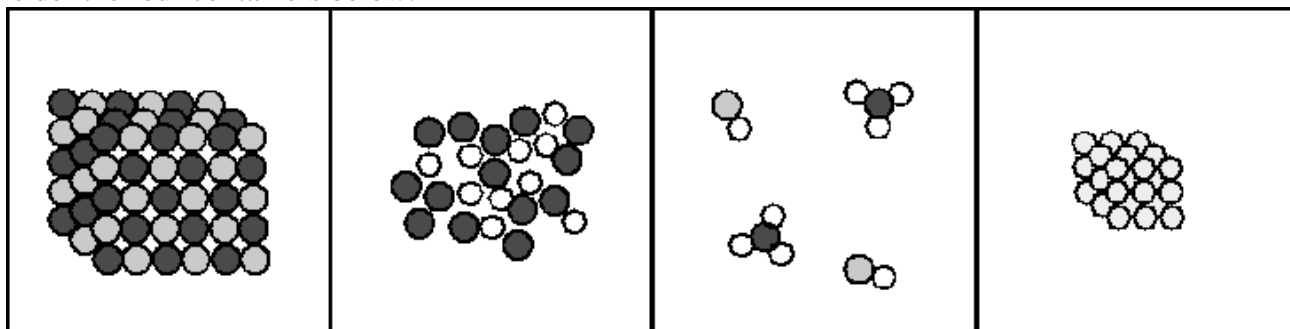
C

D

a. Which of these are mixtures? _____ pure substances? _____

b. Which contain only compounds? _____ only elements _____

8. Consider the four containers below.



A

B

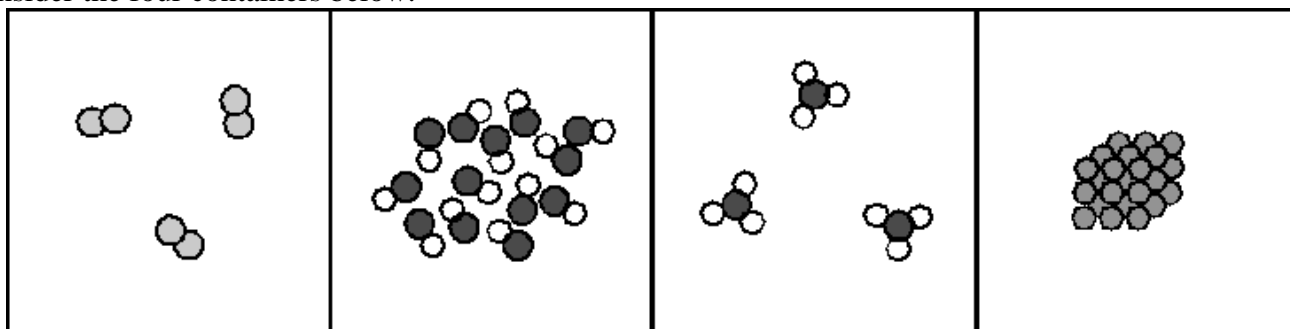
C

D

a. Which of these are mixtures? _____ pure substances? _____

b. Which contain only compounds? _____ only elements _____

9. Consider the four containers below.



A

B

C

D

a. Which of these are mixtures? _____ pure substances? _____

b. Which contain only compounds? _____ only elements _____