



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1

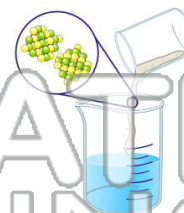
A mixture of crystals of salt and sugar is added to water and stirred until all solids have dissolved. Which statement best describes the resulting mixture?

- A The mixture is homogeneous and can be separated by filtration.
- B The mixture is homogeneous and cannot be separated by filtration.
- C The mixture is heterogeneous and can be separated by filtration.
- D The mixture is heterogeneous and cannot be separated by filtration.

2

Which must be a mixture of substances?

- A solid
- B liquid
- C gas
- D solution



3

Fractional distillation is a technique used to separate complex mixtures of hydrocarbons based on differences in their



4

A dry mixture of  $\text{KNO}_3$  and sand could be separated by

A adding water to the mixture and filtering

5



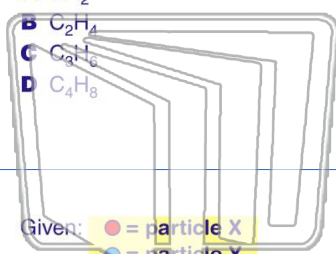
## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

7

molecular formula for this compound?

- A  $\text{CH}_2$
- B  $\text{C}_2\text{H}_4$
- C  $\text{C}_3\text{H}_6$
- D  $\text{C}_4\text{H}_8$



- A 22.4 g/mole
- B 28.0 g/mole
- C 53.5 g/mole
- D 95.5 g/mole



9

Given: ● = particle X  
● = particle Y

Which diagram represents a mixture?

- A
- B
- C
- D

10

What is the correct IUPAC name for the compound  $\text{NH}_4\text{Cl}$ ?

- A nitrogen chloride
- B nitrogen chlorate
- C ammonium chloride
- D ammonium chlorate



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1

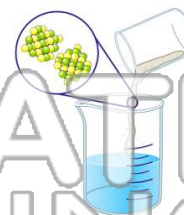
A mixture of crystals of salt and sugar is added to water and stirred until all solids have dissolved. Which statement best describes the resulting mixture?

- A The mixture is homogeneous and can be separated by filtration.
- B The mixture is homogeneous and cannot be separated by filtration.
- C The mixture is heterogeneous and can be separated by filtration.
- D The mixture is heterogeneous and cannot be separated by filtration.

2

Which must be a mixture of substances?

- A solid
- B liquid
- C gas
- D solution



3

Fractional distillation is a technique used to separate complex mixtures of hydrocarbons based on differences in their



4

A dry mixture of  $\text{KNO}_3$  and sand could be separated by

A adding water to the mixture and filtering

5



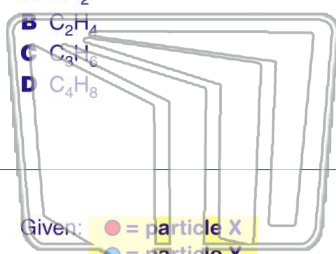
## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

7

molecular formula for this compound?

- A  $\text{CH}_2$
- B  $\text{C}_2\text{H}_4$
- C  $\text{C}_3\text{H}_6$
- D  $\text{C}_4\text{H}_8$



10

- A 22.4 g/mole
- B 28.0 g/mole
- C 53.5 g/mole
- D 95.5 g/mole



9

Given: ● = particle X  
● = particle Y

Which diagram represents a mixture?

- A
- B
- C
- D

What is the correct IUPAC name for the compound  $\text{NH}_4\text{Cl}$ ?

- A nitrogen chloride
- B nitrogen chlorate
- C ammonium chloride
- D ammonium chlorate