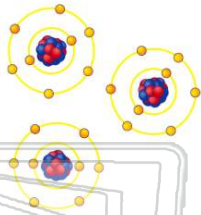




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 In which compound is the **percent by mass of oxygen** greatest?

- A BeO
- B MgO
- C CaO
- D SrO



2 Which of these contains only **one substance**?

- A distilled water
- B sugar water
- C saltwater
- D rainwater



3 The **bonds** in the compound **MgSO<sub>4</sub>** can be described as

- A ionic, only
- B covalent, only
- C both ionic and covalent
- D neither ionic nor covalent

4 What is the **molecular formula** of a compound that has a **molecular mass of 54** and the empirical formula **C<sub>2</sub>H<sub>3</sub>**?

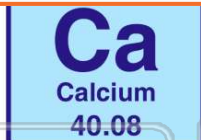
- A C<sub>2</sub>H<sub>3</sub>
- B C<sub>4</sub>H<sub>6</sub>
- C C<sub>6</sub>H<sub>9</sub>



## PREVIEW

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

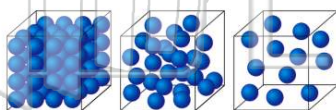
- B 29%
- C 34%
- D 47%



- B mixture
- C compound
- D solution

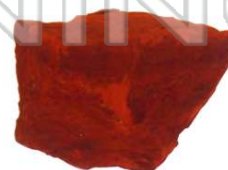
9 Which must be a **mixture of substances**?

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



10 Which formula correctly represents the composition of **iron (III) oxide**?

- A FeO<sub>3</sub>
- B Fe<sub>2</sub>O<sub>3</sub>
- C Fe<sub>3</sub>O
- D Fe<sub>3</sub>O<sub>2</sub>

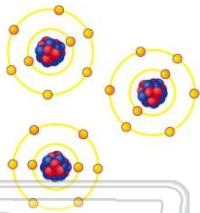




## ANSWER KEY

In which compound is the **percent by mass of oxygen greatest**?

- A BeO
- B MgO
- C CaO
- D SrO



(a)

Which of these contains only **one substance**?

- A distilled water
- B sugar water
- C saltwater
- D rainwater



(a)

The **bonds** in the compound **MgSO<sub>4</sub>** can be described as

- A ionic, only
- B covalent, only
- C both ionic and covalent
- D neither ionic nor covalent

(c)

What is the **molecular formula** of a compound that has a **molecular mass of 54** and the empirical formula **C<sub>2</sub>H<sub>3</sub>**?

- A C<sub>2</sub>H<sub>3</sub>
- B C<sub>4</sub>H<sub>6</sub>
- C C<sub>6</sub>H<sub>9</sub>
- D C<sub>8</sub>H<sub>12</sub>

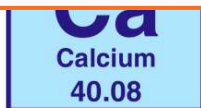
(b)



## PREVIEW

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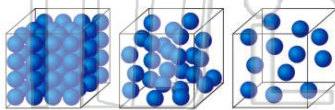
- C 34%
- D 47%



- D solution

Which must be a **mixture of substances**?

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



(c)

Which formula correctly represents the composition of **iron (III) oxide**?

- A FeO<sub>3</sub>
- B Fe<sub>2</sub>O<sub>3</sub>
- C Fe<sub>3</sub>O
- D Fe<sub>3</sub>O<sub>2</sub>



(b)