

Name - \_\_\_\_\_

Start time - \_\_ : \_\_

End time - \_\_ : \_\_

Write a definition for the term "mole"

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Calculate the molar mass of the following compounds:

1.  $\text{H}_2\text{O}$  - \_\_\_\_\_

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2.  $\text{CH}_4$  - \_\_\_\_\_

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Explain why the mole concept is important in chemistry.

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Multiple Choice: Choose the Correct Answer

1. What is the Avogadro's number?

A.  $6.02 \times 10^{22}$     B.  $1.02 \times 10^{19}$     C.  $5.0 \times 10^{23}$     D.  $8.09 \times 10^{25}$

2. Which unit is used to measure the amount of substance in chemistry?

A. Gram    B. Mole    C. Liter    D. Meter

How many molecules are there in 0.5 moles of methane ( $\text{CH}_4$ )?

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