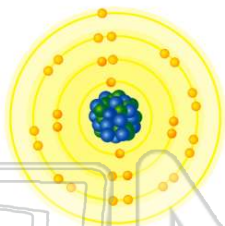




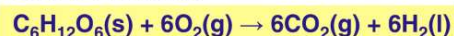
Name _____ Class _____ Date _____

- 1 Which sample contains a total of 9.0×10^{23} atoms?

A 0.50 mole of HCl
B 0.75 mole of H₂O
C 1.5 moles of Cu
D 1.5 moles of H₂



- 2 Given the reaction:



How many moles of $\text{C}_6\text{H}_{12}\text{O}_6(\text{s})$ are needed to produce 24 moles of carbon dioxide?

A 1.0 mole C 24 moles
B 12 moles D 4.0 moles

- 3 A closed container holds 3.0 moles of CO₂ gas at STP. What is the total number of moles of Ne(g) that can be placed in a container of the same size at STP?

A 1.0 mole
B 1.5 moles

- 4 Given the balanced equation:
 $3\text{Fe}^{3+}(\text{aq}) + \text{Al}(\text{s}) \rightarrow 3\text{Fe}^{2+}(\text{aq}) + \text{Al}^{3+}(\text{aq})$

What is the total number of moles of electrons lost by 2 moles of Al(s)?

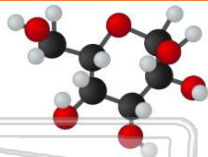
A 1 mole
B 6 moles



PREVIEW

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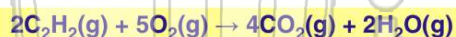
A 2.5
B 6.0
C 12
D 15



B 2.0 M
C 0.25 M
D 0.50 M



- 9 Given the equation:



How many moles of oxygen are required to react completely with 1.0 mole of C₂H₂?

A 2.5
B 2.0
C 5.0
D 10



- 10 What is the molarity of a solution of NaOH if 2 liters of the solution contains 4 moles of NaOH?

A 0.5 M
B 2 M
C 8 M
D 80 M

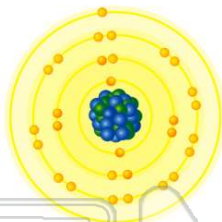




ANSWER KEY

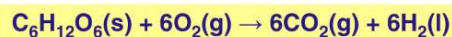
Which sample contains a total of 9.0×10^{23} atoms?

- A 0.50 mole of HCl
- B 0.75 mole of H₂O
- C 1.5 moles of Cu
- D 1.5 moles of H₂



(C)

Given the reaction:



How many moles of $\text{C}_6\text{H}_{12}\text{O}_6(\text{s})$ are needed to produce 24 moles of carbon dioxide?

- A 1.0 mole
- B 12 moles
- C 24 moles
- D 4.0 moles

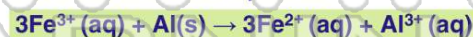
(d)

A closed container holds 3.0 moles of CO_2 gas at STP. What is the total number of moles of Ne(g) that can be placed in a container of the same size at STP?

- A 1.0 mole
- B 1.5 moles
- C 3.0 moles

(C)

Given the balanced equation:



What is the total number of moles of electrons lost by 2 moles of Al(s)?

- A 1 mole
- B 6 moles
- C 3 moles

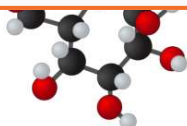
(b)



PREVIEW

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- B 6.0
- C 12
- D 15



- C 0.25 M
- D 0.50 M

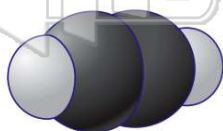


Given the equation:



How many moles of oxygen are required to react completely with 1.0 mole of C_2H_2 ?

- A 2.5
- B 2.0
- C 5.0
- D 10



(a)

What is the molarity of a solution of NaOH if 2 liters of the solution contains 4 moles of NaOH?

- A 0.5 M
- B 2 M
- C 8 M
- D 80 M

(b)

