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ACADEMY**

Mole Concept PYQs (2014-2024)



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107. The number of moles of oxygen gas used in the complete combustion of 1 mole of glucose is :

- (a) 1
- (b) 3
- ☒ (c) 6
- (d) 12



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110. What is the number of moles of 'He' in 104 g of helium gas ?

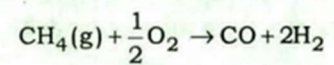
- (a) 52
- ☒ (b) 26
- (c) 13
- (d) 6.5

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2. How many moles of CO can be obtained by reacting 2.0 mole of CH₄ with 2.0 mole of O₂ according to the equation given below?

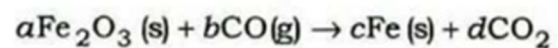


- (a) 2.0
- (b) 0.5
- (c) 2.5
- (d) 4.0



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Consider the following chemical reaction :



In the balanced chemical equation of the above, which of the following will be the values of the coefficients a , b , c and d respectively?

- (a) 3, 2, 3, 1
- (b) 1, 3, 2, 3
- (c) 2, 3, 3, 1
- (d) 3, 3, 2, 1



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How many hydrogen atoms are contained
in 1.50 g of glucose ($\text{C}_6\text{H}_{12}\text{O}_6$)?

- (a) 3.01×10^{22} (b) 1.20×10^{23}
(c) 2.40×10^{23} (d) 6.02×10^{22}



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What is the number of atoms in 46 g of sodium-23 (N = Avogadro constant)?

(a) $N/2$

(b) N

(c) $2N$

(d) $23N$



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