DELAWARE CHEMISTRY · UNIT 3 · 10 QUESTIONS

Stoichiometry and Solutions — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Which term is defined as follows: the amount of solute per amount of solution?**

- A mole
- B Avogadro's number
- C concentration
- D molar mass

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2 **Which of the following is an example of concentration?**

- A a dozen eggs as a counting unit
- B the number of atoms in 12 grams of carbon 12
- C 18 grams per mole for water
- D moles per liter

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3 **Which statement best describes concentration?**

- A concentration can be expressed as molarity
- B a mole counts particles, not mass directly
- C Avogadro's number links moles to particle counts
- D molar mass is found from atomic masses

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4 **Which term is defined as follows: adding solvent to lower concentration?**

- A mole
- B Avogadro's number
- C molar mass
- D dilution

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5 **Which of the following is an example of dilution?**

- A adding water to juice
- B a dozen eggs as a counting unit
- C the number of atoms in 12 grams of carbon 12
- D 18 grams per mole for water

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6 **Which statement best describes dilution?**

- A a mole counts particles, not mass directly
- B dilution increases volume while moles stay the same
- C Avogadro's number links moles to particle counts
- D molar mass is found from atomic masses

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7 **Which term is defined as follows: an equation with equal atoms on both sides?**



A balanced equation

B mole

C Avogadro's number

D molar mass

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8 **Which of the following is an example of balanced equation?**



A a dozen eggs as a counting unit

B $2\ H_2 + O_2$ yields $2\ H_2O$

C the number of atoms in 12 grams of carbon 12

D 18 grams per mole for water

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9 **Which statement best describes balanced equation?**

A a mole counts particles, not mass directly

B Avogadro's number links moles to particle counts

C a balanced equation conserves atoms

D molar mass is found from atomic masses

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10 **Which term is defined as follows: the maximum product predicted by stoichiometry?**

A mole

B theoretical yield

C Avogadro's number

D molar mass

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ANSWER KEY

1. C
2. D
3. A
4. D
5. A
6. B
7. A
8. B
9. C
10. B

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