YUKON CHEMISTRY 11 (MCH--11) · UNIT C · 10 QUESTIONS

Chemical Reactions and Stoichiometry — 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 **In a closed container, 8 g of sulfur reacts with 8 g of oxygen to form one product. The mass of product, in grams, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **$N_2 + 3H_2 \rightarrow 2NH_3$.**
The amount of ammonia formed from 6 moles of hydrogen, in moles, is _____

ANSWER _____

Understand It with Pulse | Flag a mistake

3

$N_2 + 3H_2 \rightarrow 2NH_3$.
With 2 moles of nitrogen and 3 moles of hydrogen, the limiting reactant is

A nitrogen

B hydrogen

C ammonia

D neither reactant

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4

$N_2 + 3H_2 \rightarrow 2NH_3$.
With 2 moles of nitrogen and 3 moles of hydrogen, the amount of ammonia formed, in moles, is ____

ANSWER _____

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5

A reaction has a theoretical yield of 80 g and an actual yield of 60 g. The percent yield is ____

ANSWER _____

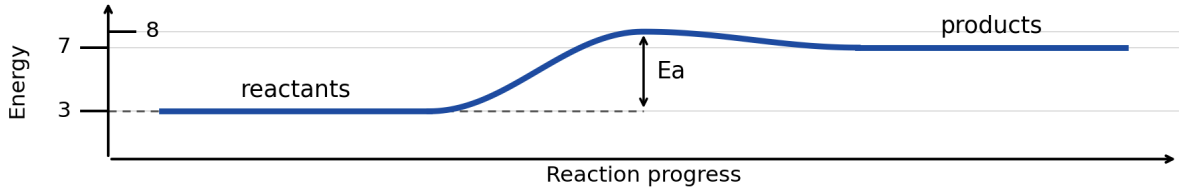
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6 **A reaction has a theoretical yield of 40 g and an actual yield of 38 g. The percent yield is _____**

ANSWER

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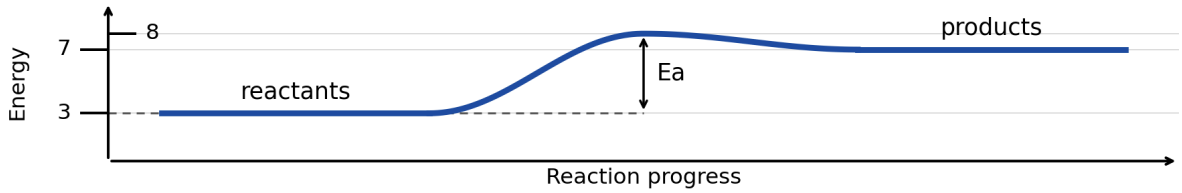
7 **The diagram shows the energy profile of a reaction. Reactants are at 3, the peak is at 8, and products are at 7. The activation energy, in the diagram units, is _____**



ANSWER

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8 **The diagram shows the energy profile of a reaction. Reactants are at 3, the peak is at 8, and products are at 7. The reaction is**



A exothermic

B endothermic

C neutral

D at equilibrium

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9 **In a combustion reaction, a hydrocarbon reacts with oxygen to form**

A carbon dioxide and water

B carbon monoxide only

C hydrogen gas and oxygen

D a salt and water

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10 **A decomposition reaction is one in which**

- A one compound breaks into simpler substances
- B two reactants combine to form one product
- C two compounds swap partners
- D a fuel burns in oxygen

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ANSWER KEY

1. 16
2. 4
3. B
4. 2
5. 75
6. 95
7. 5
8. B
9. A
10. A

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