



Name _____ Class _____ Date _____

- 1 If a student uses **50 more** grams **than necessary** of CaCO_3 for the reaction shown below, 50 grams of CaCO_3 would be left over.

True or false?



- 2 Which statement is correct for the **reaction** shown below?



- A it is a decomposition reaction
 B it is a synthesis reaction to make hydrochloric acid
 C mixing certain acids and bases makes salt and water
 D only a physical change has occurred

- 3 Which type of **chemical reaction** is occurring in the equation shown below?



- A synthesis
 B decomposition

- 4 In the reaction shown below, **500** grams of KClO_3 produced **303** grams of KCl . How much **oxygen** (O) was produced in this reaction?



- A 803 grams
 B 500 grams



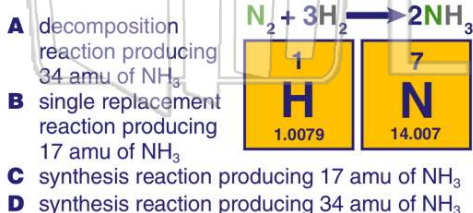
PREVIEW

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- 5
 7
 A take away the products
 B reduce the amount of reactants
 C increase the amount of reactants
 D decrease the temperature

- B rate of reaction to the right is lower than the rate to the left
 C rate to the right doubles the rate to the left
 D rate to the right is reduced to one half of the rate to the left

- 9 What correctly describes this **chemical reaction**?



- 10 All chemical reactions require **activation energy**.

True or false?

- A true
 B false





ANSWER KEY

If a student uses **50 more** grams **than necessary** of CaCO_3 for the reaction shown below, 50 grams of CaCO_3 would be left over.

True or false?

- A** true $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
B false

(a)

Which statement is correct for the **reaction** shown below?



- A** it is a decomposition reaction
B it is a synthesis reaction to make hydrochloric acid
C mixing certain acids and bases makes salt and water
D only a physical change has occurred

(c)

Which type of **chemical reaction** is occurring in the equation shown below?



- A** synthesis
B decomposition
C single replacement
D double replacement

(b)

In the reaction shown below, **500** grams of KClO_3 produced **303** grams of **KCl**. How much **oxygen** (O) was produced in this reaction?



- A** 803 grams
B 500 grams
C 197 grams
D 207 grams

(c)



PREVIEW

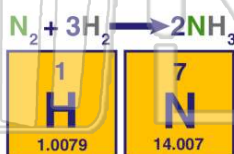
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- C** increase the amount of reactants
D decrease the temperature

- the rate to the left
C rate to the right doubles the rate to the left
D rate to the right is reduced to one half of the rate to the left

What correctly describes this **chemical reaction**?

- A** decomposition reaction producing 34 amu of NH_3
B single replacement reaction producing 17 amu of NH_3
C synthesis reaction producing 17 amu of NH_3
D synthesis reaction producing 34 amu of NH_3



(d)

All chemical reactions require **activation energy**.

True or false?

- A** true
B false



(b)