Acids, Bases and Salts
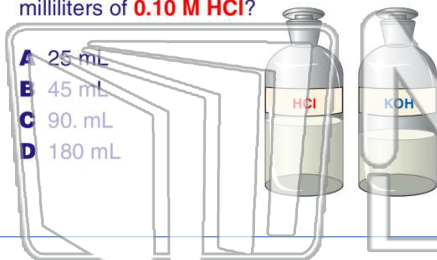
Name_____ Class_____ Date_____

1 How many milliliters of **0.20 M KOH** are needed to **completely neutralize** 90.0 milliliters of **0.10 M HCl**?

A 25 mL
B 45 mL
C 90. mL
D 180 mL

2 Which **0.1-molar aqueous solution** is the best **conductor of electricity**?

A H_2S
B HF
C H_2SO_4
D H_3PO_4

3 A solution has a **hydroxide ion** concentration of **1 x 10^{-5} M**. What is the **hydrogen ion concentration** of the solution?

4 How many **hydroxide ions** are needed to **completely neutralize** 1.0 liter of 0.50 M HCl?
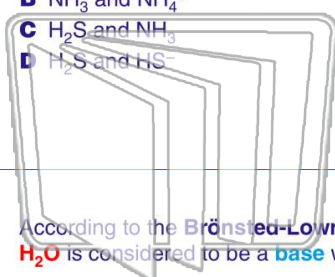
5

7 the two **Brönsted-Lowry bases** are

A NH_3 and HS^-
B NH_3 and NH_4^+
C H_2S and NH_3
D H_2S and HS^-
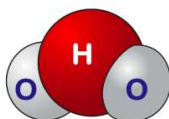
A hydrogen ion
B hydroxide ion
C hydride ion
D chloride ion

9 According to the **Brönsted-Lowry theory**, H_2O is considered to be a **base** when it

A donates an electron
B accepts an electron
C donates a proton
D accepts a proton

10 Given the **neutralization** reaction:

$$H_2SO_4 + 2KOH \rightarrow K_2SO_4 + 2HOH$$

Which compound is a **salt**?

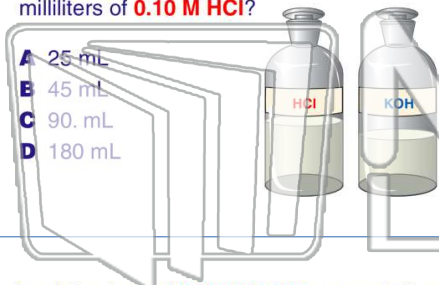A KOH
B H_2SO_4
C K_2SO_4
D HOH

Name_____ Class_____ Date_____

1 How many milliliters of **0.20 M KOH** are needed to **completely neutralize** 90.0 milliliters of **0.10 M HCl**?

A 25 mL
B 45 mL
C 90. mL
D 180 mL

B

2 Which **0.1-molar aqueous solution** is the best **conductor of electricity**?

A H_2S
B HF
C H_2SO_4
D H_3PO_4

C

3 A solution has a **hydroxide ion** concentration of 1×10^{-5} M. What is the **hydrogen ion concentration** of the solution?

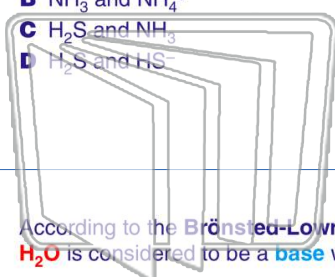**4** How many **hydroxide ions** are needed to **completely neutralize** 1.0 liter of 0.50 M HCl?

B

5

B

PREVIEW

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7

the two **Brönsted-Lowry bases** are

A NH_3 and HS^-
B NH_3 and NH_4^+
C H_2S and NH_3
D H_2S and HS^-

A

A hydrogen ion
B hydroxide ion
C hydride ion
D chloride ion

A

9 According to the **Brönsted-Lowry theory**, H_2O is considered to be a **base** when it

A donates an electron
B accepts an electron
C donates a proton
D accepts a proton

D

10 Given the **neutralization** reaction:

$$H_2SO_4 + 2KOH \rightarrow K_2SO_4 + 2HOH$$

Which compound is a **salt**?

A KOH
B H_2SO_4
C K_2SO_4
D HOH

C

acid + base → grains of salt + water