Given: NaOH(aq) and $NH_3(aq)$

- 1) Refer to Table ${f L}$
 - a) State **three** properties that these bases have in common.

b) Which of these bases is **stronger**? How could you prove this experimentally?

2) Given: Ba(OH)₂ and Al(OH)₃ Based on Table **F**, which of these bases is the **strongest**? Explain.

3) According to **Arrhenius**, what ion is responsible for basic properties?

- 4) Which of the following oxides is basic?
 - a) N_2O_4
- b) Cl₂O₇
- c) SrO
- d) NO₂

Na	ame:						
1)	 A substance is classified as an electrolyte because A) it contains covalent bonds B) its aqueous solution has a pH value of 7 C) its aqueous solution conducts an electric cur D) it has a high melting point 						
2)	An Arrhenius base yields which ion as the only no A) hydronium ion B) hydride ion	egative io C) D)	on in an aqueous hydrogen ion hydroxide ion	solution?			
3)	An aqueous solution of lithium hydroxide contains hydroxide ions as the only negative ion in the solution. Lithium hydroxide is classified as an						
	A) alcohol B) Arrhenius base	C) D)	aldehyde Arrhenius acid				
4)	The compound NaOH(s) dissolves in water to yiel	ld					
	A) hydroxide ions as the only negative ionsB) hydroxide ions as the only positive ions	C) D)	hydronium ions as the only positive ions hydronium ions as the only negative ions				
5)	Which of the following substances is an Arrheniu	s base?					
	A) CH ₃ Cl B) CH ₃ OH	C)	LiCl	D)	LiOH		
6)	Which compound releases hydroxide ions in an a						
	A) HCI B) KOH	C)	CH₃COOH	D)	CH₃OH		
7)	Which ion is the only negative ion produced by an Arrhenius base in water?						
	A) OH- B) CI-	C)	H-	D)	NO ₃ -		

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Name:			

- 1) A student is given two beakers, each containing an equal amount of clear, odorless liquid. One solution is acidic and the other is basic.
 - (a) State two safe methods of distinguishing the acid solution from the base solution.
 - (b) For each method, state the results of *both* the testing of the acid solution and the testing of the base solution.