

Introduction to Acids and Bases

1 Circle the correct answer.

i. A solution with a pH of less than 7 is called

- a. neutral c. acidic
b. basic d. poison

ii. A household cleaner has a pH of around 10. It would be considered

- a. base c. neutral
b. acid d. liquid

iii. Bleach is a

- a. weak acid c. strong acid
b. weak base d. strong base

iv. A substance that changes color when exposed to acid or base solutions is called a (n)

- a. salt c. molecule
b. indicator d. ion

2 Write the names of the following acids and bases.

i. KOH _____

iii. H₂Se _____

ii. C₂H₃O₂H _____

iv. Fe(OH)₂ _____

3 Identify the following as acid, base, or neutral.

KBr _____

LiOH _____

H₂S _____

H₃PO₄ _____

CaCl₂ _____

Ba(OH)₂ _____

4 Name the following acids and bases.

HF _____

HNO₂ _____

Ca(OH)₂ _____

Mg(OH)₂ _____

HBr _____

H₂CO₃ _____

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Answers

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- a. salt c. molecule
 b. indicator d. ion

2 Write the names of the following acids and bases.

i. KOH Potassium hydroxide

iii. H₂Se Hydroselenic acid

ii. C₂H₃O₂H Acetic acid

iv. Fe(OH)₂ Iron (II) hydroxide

3 Identify the following as acid, base, or neutral.

KBr Acid

LiOH Base

H₂S Acid

H₃PO₄ Acid

CaCl₂ Neutral

Ba(OH)₂ Base

4 Name the following acids and bases.

HF Hydrofluoric acid

HNO₂ Nitrous acid

Ca(OH)₂ Calcium hydroxide

Mg(OH)₂ Magnesium hydroxide

HBr Hydrobromic acid

H₂CO₃ Carbonic acid