







\_\_\_ 23. Analysis of 60mg of a hydrocarbon shows it to contain 48mg of carbon. Which of the following is most likely to be the molecular formula?

- a.  $\text{CH}_3$
- b.  $\text{C}_2\text{H}_6$

- c.  $\text{C}_4\text{H}_8$
- d.  $\text{C}_4\text{H}_{12}$

\_\_\_ 24. A Lewis acid is

- a. a donor of an electron pair.
- b. a donor of  $\text{H}^+$ .

- c. an acceptor of an electron pair.
- d. an acceptor of Jerry Lewis.

\_\_\_ 25. Which is the best Lewis acid?

- a.  $\text{NH}_3$
- b.  $\text{BH}_3$

- c.  $\text{PH}_3$
- d.  $\text{CH}_4$