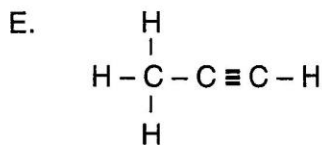
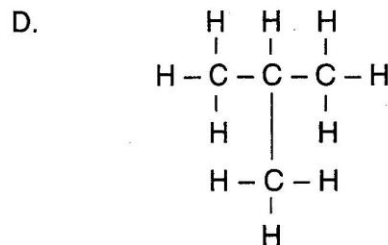
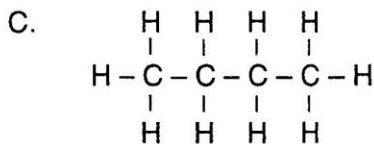
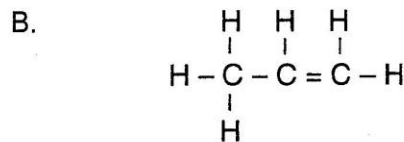
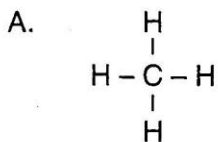


Simple Organic Compounds

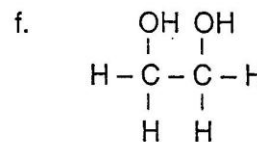
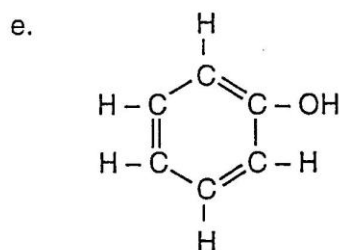
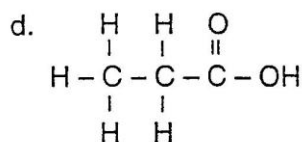
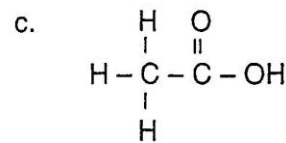
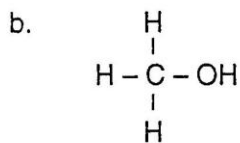
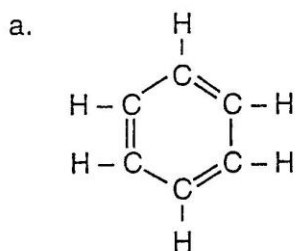
Name _____ Per _____

Use the structural formulas below to answer the questions.



1. What is the chemical formula for the compound shown in Figure A? _____
2. What is the chemical formula for Figure C? _____
3. Which compounds are unsaturated hydrocarbons? _____
4. Which compounds are saturated hydrocarbons? _____
5. In Figure B, what is represented by the symbol = ? _____
6. In Figure E, what is represented by the symbol \equiv ? _____
7. What is the chemical formula for Figure D? _____
8. Which two structural formulas represent isomers of the same compound? _____
9. What kind of hydrocarbons have saturated single bonds (like C)? _____
10. What kind of hydrocarbons have unsaturated double bonds (like B)? _____
11. What kind of hydrocarbons have unsaturated triple bonds (like E)? _____
12. What kind of organic compound is shown in all the formulas? _____

13. Identify the following compounds that are aromatic compounds. If the compound is aromatic, place a plus (+) in the space provided. If the compound is not aromatic, place a (-) in the space provided.



a. _____

c. _____

e. _____

b. _____

d. _____

f. _____

Use the diagrams above to answer the following questions.

14. What is the formula for the compound in Figure B? _____

15. Which compounds are substituted hydrocarbons? _____

16. Which of the compounds are organic acids? _____

17. How are the structures of the organic acids similar? _____

18. Which of the substituted hydrocarbons are alcohols? _____

19. What do the structures of alcohols have in common? _____

20. Which compound has the formula $C_2H_4(OH)_2$? _____

21. Describe the structural shape of benzene. _____

22. What is the formula for benzene? _____