

Name _____

Organic Nomenclature #2

How many hydrogens are in the following molecules?

- | | |
|--|------------|
| 1) A 27 carbon alkyne with one triple bond? | <u>52</u> |
| 2) An 18 carbon alkene with one double bond? | <u>36</u> |
| 3) A 14 carbon alkane? | <u>30</u> |
| 4) A 105 carbon alkene with two double bonds? | <u>208</u> |
| 5) An 8 carbon cycloalkane? | <u>16</u> |
| 6) A 12 carbon cycloalkene with one ring and two double bonds? | <u>20</u> |
| 7) A 22 carbon two ring cycloalkane? | <u>42</u> |
| 8) A 9 carbon alkane with two halogens and a carboxyl group? | <u>16</u> |
| 9) A 13 carbon cycloalkane with one ring and an amide group? | <u>27</u> |
| 10) A 6 carbon alkene with one double bond and a ketone group? | <u>10</u> |

Draw the structural formulas for the following compounds.

- 11) 4 methyl 3 ethyl 2,4,5 trichloro 2-penten 1-oic Acid
- 12) 1,3,5 trifluoro 2,4 dimethyl 4,5 diiodo 2- hexanamine
- 13) 2,5,5 trichloro 4 ethyl 2,6 dimethyl 4 propyl 3- heptanone
- 14) 2 chloro propyl butanoate