## Naming Hydrocarbons Worksheet and Key

Write the name of each of the hydrocarbon molecules shown below:

2) 
$$\begin{array}{c} \text{CH}_3 \\ \text{CH} \\ \text{CH}_2 \\ \text{CH}_2 \\ \text{CH}_2 \\ \text{CH}_3 \end{array}$$

3) 
$$\begin{array}{c} \text{CH}_3 \\ \text{CH}_{\bar{2}}\text{CH}_{\bar{2}}\text{CH}=\text{CH}-\text{C}-\text{CH}_{\bar{2}}-\text{CH}_3 \\ \text{CH}_3 \end{array}$$

8)
$$H_{3}C-CH_{2}$$

$$CH-CH_{3}$$

$$H_{2}C-CH_{2}$$

$$CH_{3}$$

9) 
$$H_3C$$
  $CH_2$ - $CH_2$ - $CH_3$   $CH$ - $CH$ - $CH$ - $CH_3$   $CH_3$ 

10) 
$$\begin{array}{cccc} \text{CH}_3 & \text{CH}_3 & \text{CH}_3 \\ & | & | & | \\ \text{CH}_3\text{CH}_2\text{CH-CH-CH-CH}_2\text{CH-CH}_3 \\ & | & | \\ \text{CH}_2\text{CH}_3 \end{array}$$

11) 
$$\begin{array}{c} \text{CH}_3 \\ \text{CH} \\ \text{CH}_3 \\ \text{CH}_2 - \text{CH}_2 \\ \text{CH}_2 - \text{CH}_3 \\ \end{array}$$

## Key

- 1) octane
- 2) 2,5-dimethyloctane
- 3) 5,5-dimethyl-3-heptene
- 4) 1,3-diethylcyclopentane
- 5) 4-nonene
- 6) cyclopropane
- 7) 6-ethyl-2-octyne
- 8) 3-methylhexane
- 9) 4-ethyl-2,3-dimethylheptane
- 10) 5-ethyl-2,4,6-trimethyloctane
- 11) 3,4-diethyl-2-hexene
- 12) cyclobutene
- 13) benzene
- 14) 2,7,8-trimethyldecane
- 15) 2-hexene
- 16) 3,3-diethylpentane
- 17) 3-ethyl-2-methylpentane