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## Naming Alkanes - Worksheet \#1

Name the following branched alkanes:

| 1. |  |  |
| :---: | :---: | :---: |
| 2. |  |  |
| 3. |  |  |
| 4. |  |  |
| 5. |  |  |
| 6. |  |  |
| 7. |  |  |

Draw structural formulas for the following molecules. Remember the following:

- Carbons on the end of a chain are attached to three hydrogens
- Carbons in the middle of a chain are attached to two hydrogens
- Carbons that have one branch attached are also attached to one hydrogen
- Carbons that have two branches attached are not attached to any hydrogens


## 8. 4-ethyloctane

## 9. 2-methyInonane

10. 3,3-dimethylpentane
11. 3-ethylpentane
12. 3-ethyl-2-methylheptane
1) 2-methylpropane 2) 2-methylbutane 3) 4-ethylheptane 4)3-ethyl-4-methylheptane 5) 5-ethyl-3-methyloctane 6) 5-ethyl-5methyldecane 7) 4-ethyl-6-methyInonane $8-12$ ) see website
