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| **Screen shot 2011-12-27 at 2.06.48 PM.png** | **Naming****Simple** **Hydrocarbons** | Name: Date: |
|  |

**Steps to Naming Simple Alkanes:**

1. Find the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of carbon atoms. It does ***NOT*** have to be in a straight line. This is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ chain.

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| **Screen shot 2011-12-27 at 2.29.33 PM.png** | *The longest continuous chain of carbon atoms contains \_\_\_\_\_ carbon atoms* |

State the number of catbon atoms using the appropriate prefix and the ending “ane.”

*The appropriate prefix would be \_\_\_\_\_\_\_\_\_\_\_\_\_ and with the ending “ane” would be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.*

1. Branches are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ groups. Number the carbon atoms in the parent chain starting at the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

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1. **Name each branch**.

Give a prefix according to the number of carbon atoms it contains. Branch names end in \_\_\_\_\_ instead of \_\_\_\_\_\_\_\_\_\_\_.

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List the branches in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. If more than one branch has the same number of carbon atoms use the prefixes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. **Name each branch**.

State the name of the alkane by naming each branch, then naming the parent. Use commas between numbers and hyphens between numbers and branches.

**Practice #1.**

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| 1. Parent Chain.
2. Number the parent chain.
3. Name the branches.
4. Name the compound

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**Practice #2.**

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| 1. Parent Chain.
2. Number the parent chain.
3. Name the branches.
4. Name the compound

  | Screen shot 2011-12-27 at 2.38.14 PM.png |

**Practice #3.**

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| 1. Parent Chain.
2. Number the parent chain.
3. Name the branches.
4. Name the compound

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**Practice #4.**

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| 1. Parent Chain.
2. Number the parent chain.
3. Name the branches.
4. Name the compound
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