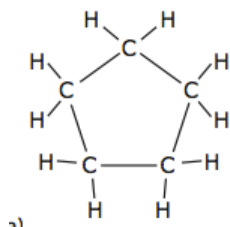


- | |
|--------------------------------------|
| 1. Cycloalkanes
2. Aromatic Rings |
|--------------------------------------|

Cycloalkanes

- Carbon atoms may bond to each other and form a _____



becomes

- General Formula:

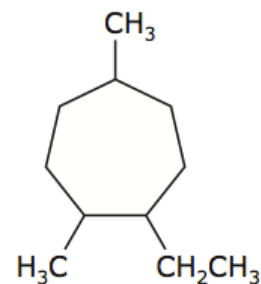
# of C Atoms	Prefix	Cycloalkane	Formula
1	Meth-		
2	Eth-		
3	Prop-		
4	But-		
5	Pent-		
6	Hex-		
7	Hept-		
8	Oct-		
9	Non-		
10	Dec-		

Steps to Naming Cycloalkanes:

- The ring that contains the greatest number of carbon atoms is the _____

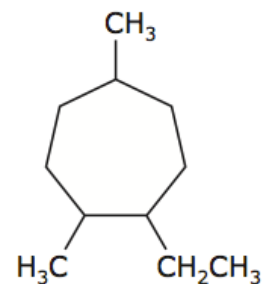
-

Parent Chain =



2. The carbon atoms are numbered either clockwise or counter-clockwise.

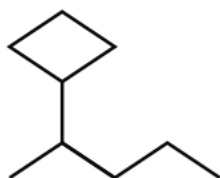
•



3.

4.

If the ring structure is not the longest continuous carbon chain, then it is named as a branch with prefix "cyclo" and ends in "yl."



Parent:

Branch:

Compound:

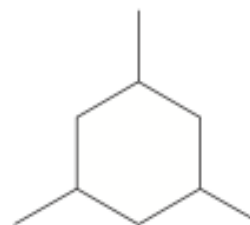
Practice #1.

1. Parent Chain.

2. Number the parent chain.

3. Name the branches.

4. Name the compound



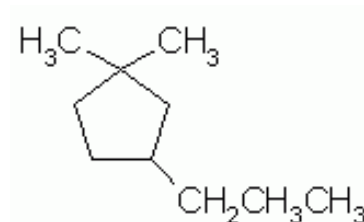
Practice #2.

1. Parent Chain.

2. Number the parent chain.

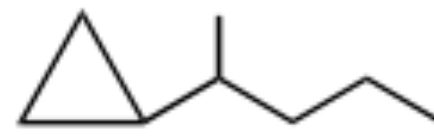
3. Name the branches.

4. Name the compound



Practice #3.

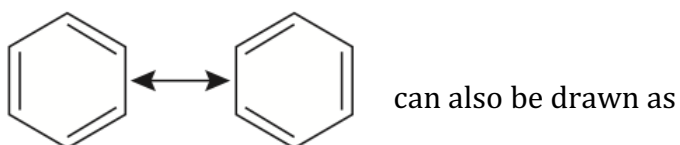
1. Parent Chain.
2. Number the parent chain.
3. Name the branches.
4. Name the compound



Complete worksheet on Cycloalkanes

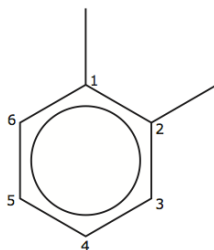
Aromatic Rings

- An aromatic hydrocarbon, or _____, is a hydrocarbon with six carbon atoms in a ring
- It has the molecular formula _____
- The electrons in a benzene molecule are spread out across multiple atoms, so there is more than one way to draw its Lewis structure
-



Steps to Naming Aromatic Rings:

- Same as other naming procedures! Except... parent chain is called:

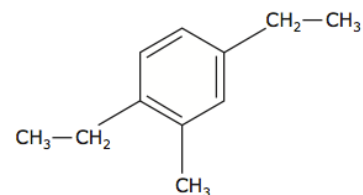


Some organic compounds have benzene as a branch.

In this case, the branch name is “_____”

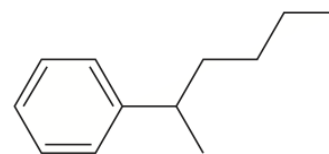
Practice #1.

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



Practice #2.

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



Practice #3.

1. Parent Chain. (remember alkene and alkyne will be main parent chain)
2. Number the parent chain.
3. Name the branches.
4. Name the compound

