## Cycloalkanes

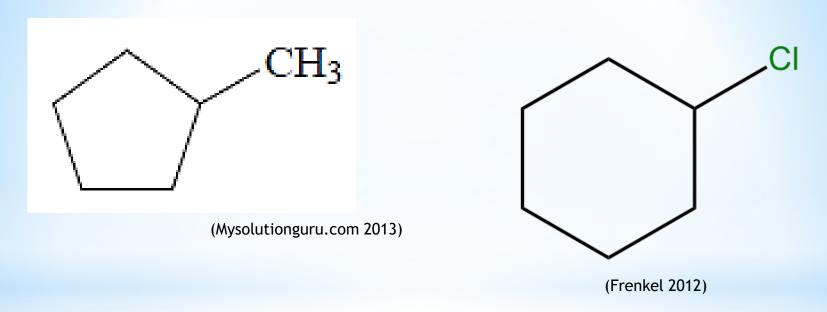
- Saturated (ie only single bonds between atoms) ring structures.
- General formula is C<sub>n</sub>H<sub>2n</sub>.
- Part of a homologous series, each differing by CH<sub>2</sub>.

## Nomenclature (Naming)

Add the prefix cyclo- to the stem name.

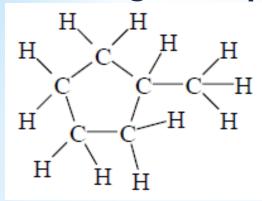
Eg cyclobutane, cyclodecane, etc

Note the shorthand way of drawing cycloalkanes.
Eg



 Be careful as most questions ask you to show all atoms, for which this form is not acceptable! If there is only one substituted group, no numbering is required.

Eg



(Mysolutionguru.com 2013)

methylcyclopentane

(Neogen Chemicals Limited nd)

## chlorocyclohexane

 If there are more than one substituted group, numbering is required (follow alkane numbering rules).

1,4-dimethylcyclohexane

(pixshark.com nd)