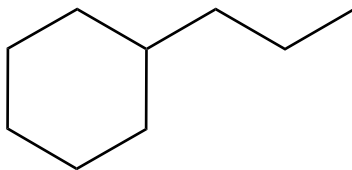


CONCEPT: NAMING CYCLIC ALKANES

- The rules for naming cyclic alkanes are very similar to naming alkanes with **substituents**.

location-substituent-cycloparent

EXAMPLE: Determine systematic name of the following alkane.



STEP 1: Assign name to the alkane _____ (parent) according to the prefixes.

- ☐ Add prefix _____ to the name of the alkane ring.

STEP 2: Assign name to all the substituents.

STEP 3: Start numbering the chain from the closest substituent.

- ☐ If only one substituent, location is _____ necessary.
- ☐ If a tie between substituents, compare the next closest substituent.
- ☐ If still a tie, number in alphabetical order.

STEP 4-6: Repeat steps from previous naming topic.

PRACTICE: Give a systematic name for the below compound.

