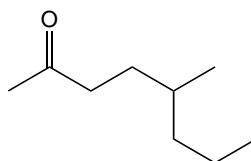


CONCEPT: NAMING KETONES

- **Recall:** Ketones possess a carbonyl carbon connected to ____ atoms.
- Set of rules for naming ketones are similar to alcohols.
 - Modify the ending from - ____ to - ____.

location-substituent-location-parent-modifier

EXAMPLE: Provide the formal name for the ketone shown.



STEP 1: Find the longest carbon chain (parent chain) and assign name according to the prefixes and modifier.

- Parent chain should include the carbonyl carbon and have _____ number of carbons.
- If a tie between longest chains, choose chain with more substituents.

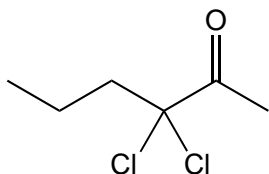
STEP 2: Assign name to all the substituents.

STEP 3: Start numbering the chain from the end closest to the _____ carbon.

- If a tie, then number from end closest to the next substituent.
- If still a tie, number in _____ order.
- Assign location to the _____ carbon.

STEP 4 to 6: Repeat steps from previous naming topics.

PRACTICE: Provide the systematic name for the following ketone.



PRACTICE: Which of the following compounds represent 2,4-dimethyl-3-pentanone?

