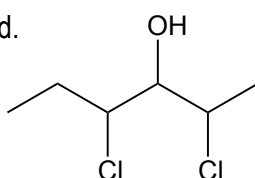


CONCEPT: NAMING ALCOHOLS

- **Recall:** Alcohols possess a _____ (OH) group connected to an sp^3 hybridized carbon.
- Set of rules for naming alcohols are similar to alkanes + *modifier* ending.
 - **Modifier:** Change to the _____ because of the presence of a functional group.
 - Modify the ending from - ____ to - ____.

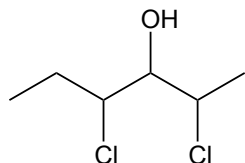
location-substituent-location-parent-modifier

EXAMPLE: Name the following alcohol compound.



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

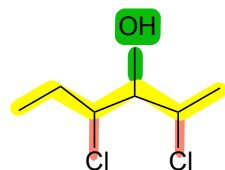
- Parent chain should include the _____ group and have _____ number of carbons.
- If a tie between longest chains, choose chain with more substituents.



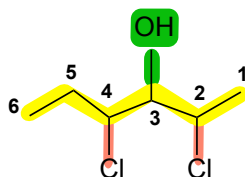
STEP 2: Assign name to all the substituents.

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

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

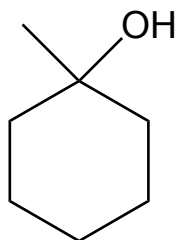


STEP 4 to 6: Repeat steps from previous naming topics.

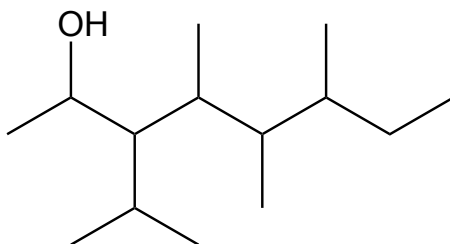


CONCEPT: NAMING ALCOHOLS

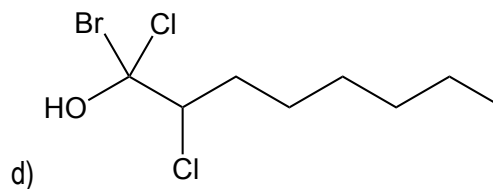
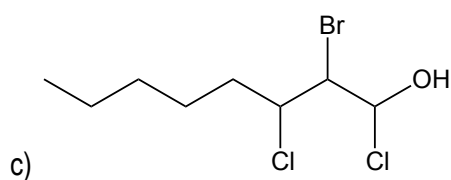
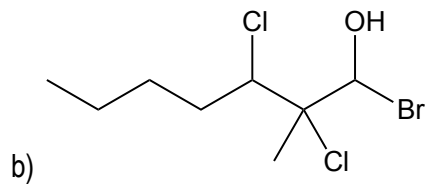
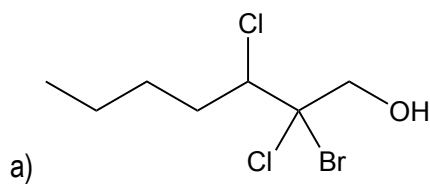
PRACTICE: Provide the systematic name for the following alcohol.



PRACTICE: Provide the formal name for the following alcohol.

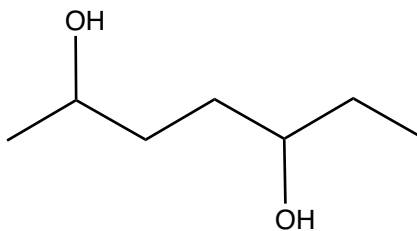


PRACTICE: Which structure represents 2-bromo-2,3-dichloro-1-heptanol?

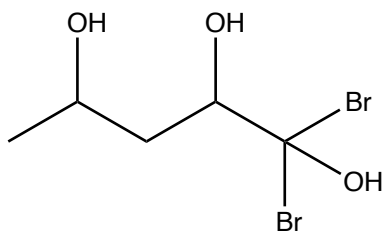


CONCEPT: NAMING ALCOHOLS

PRACTICE: Name the following dialcohol.



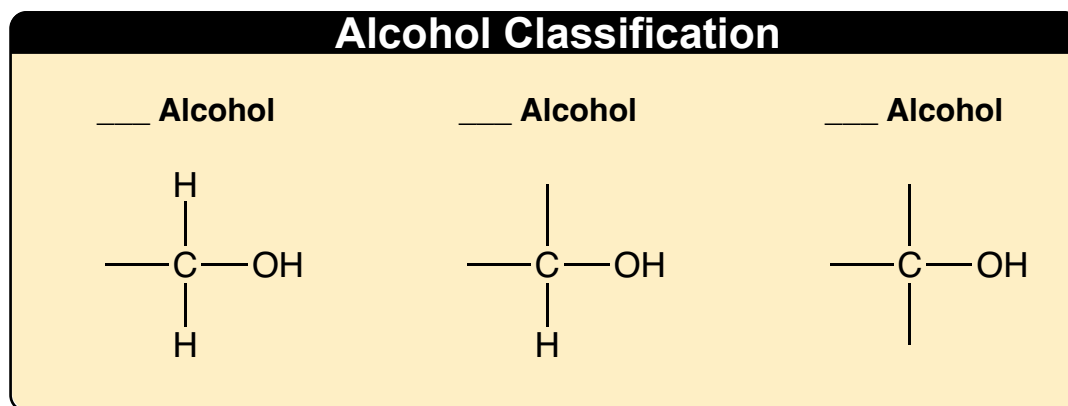
PRACTICE: Provide IUPAC name for the following trialcohol.



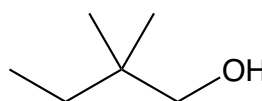
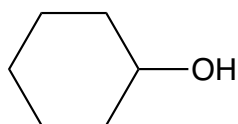
CONCEPT: NAMING ALCOHOLS

Alcohol Classification

- Alcohols are classified based on how many _____ groups are attached to the _____ bearing C atom.
 - Classifications: primary (_____), secondary (_____) or tertiary (_____).



EXAMPLE: Classify the following alcohols.



PRACTICE: Label each alcohol as primary, secondary, or tertiary.

