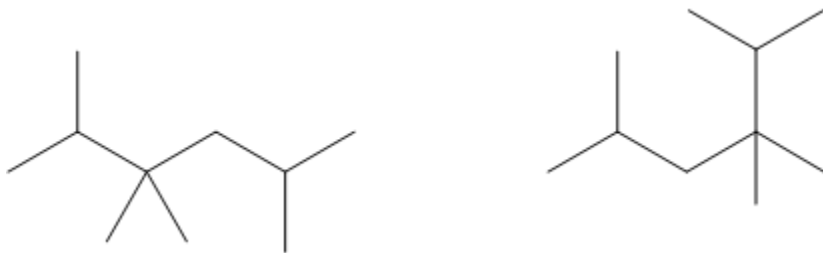


CONCEPT: CONSTITUTIONAL ISOMERS

Constitutional isomers are molecules that have identical molecular formulas (all the same atoms), but have different _____. You will be asked to compare molecules and determine how they are related.

EXAMPLE: How are the following two compounds related?



- A) Identical Compounds
- B) Constitutional Isomers
- C) Different Compounds

Steps to solve Constitutional Isomer Problems:

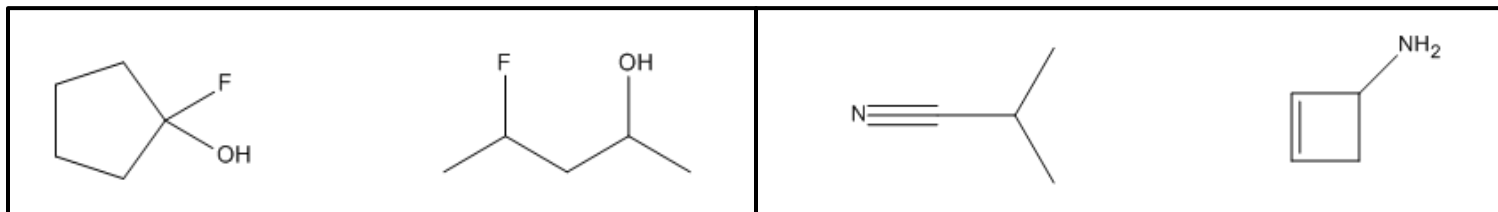
Step 1. (Are the atoms all the same?) Count non-_____ atoms and IHD in both compounds

- If not exactly the same, they are _____
- If the same, then go to step 2

Step 2. (Are the atoms all connected the same?) Look for a _____ atom, then count bonds from there.

- If not exactly the same, they are _____
- If the same, then they are _____

EXAMPLE: How are the following sets of compounds related?



- A) Identical Compounds
- B) Constitutional Isomers
- C) Different Compounds

- A) Identical Compounds
- B) Constitutional Isomers
- C) Different Compounds