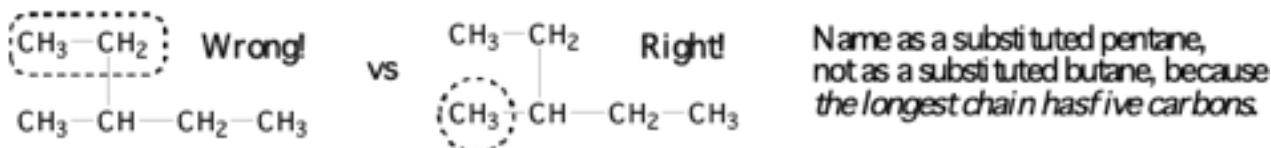
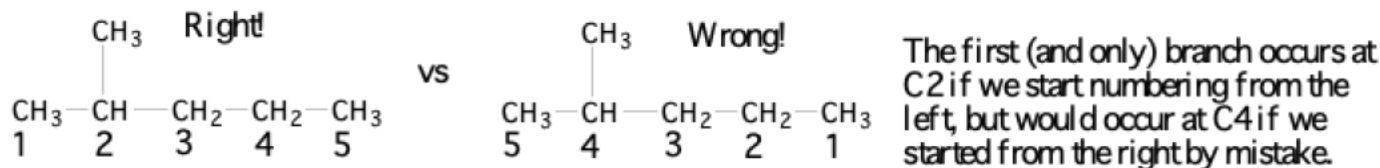


Branched-chain alkanes can be named by following four steps:

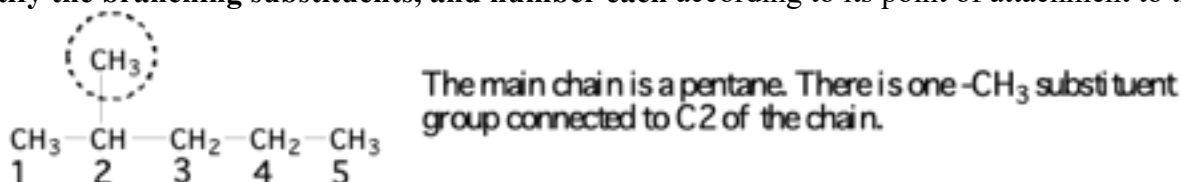
STEP 1: Name the main chain. Find the longest continuous chain of carbons. This will be the parent name. (Watch out – the structure might “turn corners”.)



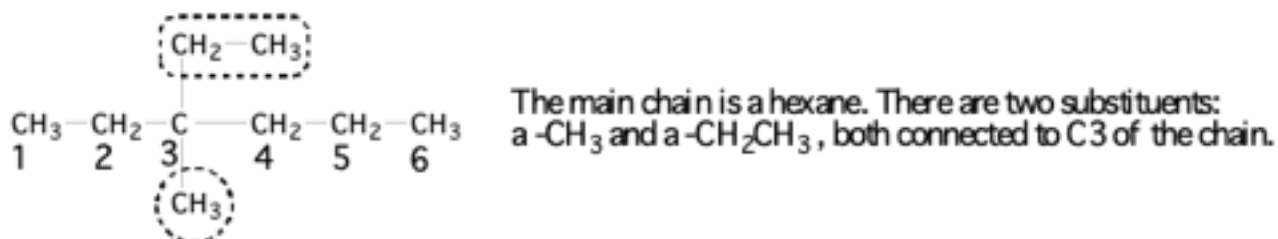
STEP 2: Number the carbon atoms in the main chain. Begin at the end nearer the first branch point:



STEP 3: Identify the branching substituents, and number each according to its point of attachment to the main chain:



If there are two substituents on the same carbon, assign the same number to both. There must always be as many numbers in the name as there are substituents.



STEP 4: Write the name as a single word, using hyphens to separate the numbers from the different prefixes and commas to separate numbers if necessary. If two or more different substituent groups are present, cite them in alphabetical order.

If two or more identical substituents are present, use one of the prefixes di-, tri-, tetra-, and so forth, but do not use these prefixes for alphabetizing purposes.

