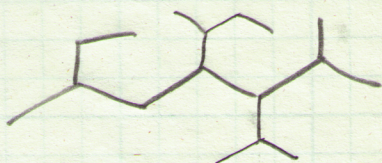


Practice naming these alkanes

① USE the systematic names for substituents, NOT common names



Longest chain:

2pts

Substituent Listings and locations

14pts

SEE NOTE

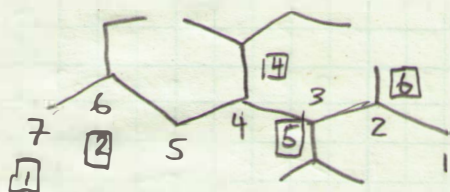
NOTE: if three of the same substituents are present, those items must be placed in one box with a tri prefix.

e.g. 1, 2, 2, 3 - trimethyl

Full name of the above, must be exactly correct

2pts extra credit

Key



None squared #s

2, 3, 4, 6 = Lower #s, use this!

Squared #s

2, 4, 5, 6

Longest chain: heptane

2-methyl

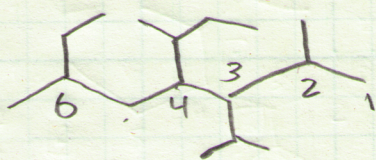
3-(1-methylethyl)

4-(1-methylpropyl)

6-ethyl

6-ethyl-2-methyl-3-(1-methylethyl)-4-(1-methylpropyl) [✓]
heptane

If you can master this problem, then you likely, not
guaranteed, can master other problems like this.



Name using common names for substituents where applicable.

LC: heptane

2-methyl

3-isopropyl

4-sec-butyl

6-ethyl

4-sec-butyl-6-ethyl-3-isopropyl-2-methylheptane

'b' beats 'e'

'i'

ignore this 'sec' because it is a number: 2° (secondary)

format

#, #-letters-#-letters

sec- } are numbers
tert- }

2°, 3°

secondary

tertiary

'iso', 'neo' } are a part of the name ∴ included when alphabetizing.