Chemistry 52

Name:_____

STRUCTURAL ISOMERS
Experiment 12

A. Briefly define structural isomers.

_____

_____

_____

B. For each compound listed below:
1. Write molecular formula.
2. Write condensed formulas for all structural isomers of each compound. (Not all boxes need to be used)
3. Name each isomer.

a) Butane molecular formula:_____

Isomer 1	Isomer 2
Name:_____	Name:_____

b) Pentane molecular formula:_____

Isomer 1	Isomer 2
Name:_____	Name:_____
Isomer 3	Isomer 4
Name:_____	Name:_____

c) Hexane molecular formula:_____

Isomer 1 Name:_____	Isomer 2 Name:_____
Isomer 3 Name:_____	Isomer 4 Name:_____
Isomer 5 Name:_____	Isomer 6 Name:_____

Questions:

1. Are isomers different compounds? Briefly explain justification to support your answer.

2. Draw condensed formulas and name all structural isomers of chloropentane.