

NAME: _____

Quiz 12

Imagine that you feed yeast cells glucose with ^{13}C at position one and ^{12}C at positions two through six. In a ^{13}C NMR experiment, only ^{13}C gives a signal. ^{12}C will not show up on the spectrum. You want to determine the amount of glucose flowing through glycolysis verses going through the pentose phosphate pathway. Use the table of ^{13}C chemical shifts to determine how you would distinguish ^{13}C at position one going through glycolysis as compared to going through the pentose phosphate pathway. Which peaks will you look for?

