



1 Complete the table about the NMR spectra of the compounds shown.

compound	^{13}C NMR	^1H NMR		
	number of signals	number of signals	relative intensity	splitting pattern
	4	3	3:2:3	s q t
	7	5	3:1:6:2:3	s s s q t

2 The ^1H NMR spectrum of a compound with the molecular formula $\text{C}_9\text{H}_{16}\text{O}_2$ is shown. Deduce the structure of the compound.

