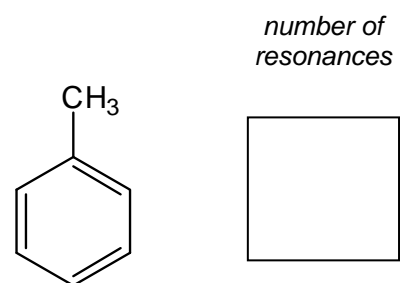
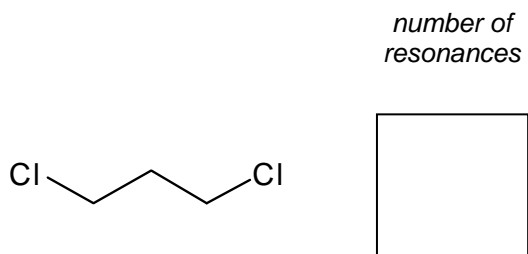


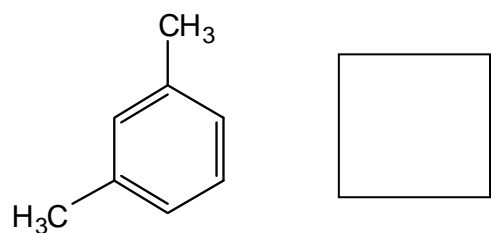
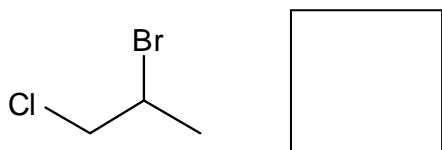
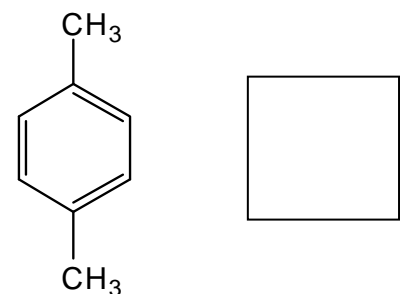
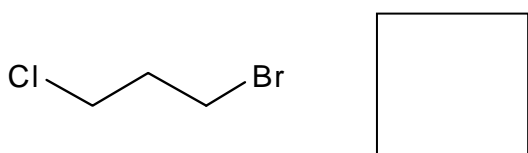
**Workshop 27**  
**Equivalent and Inequivalent Nuclei**

For each of the molecules below,

- Label each inequivalent set of protons with a lower-case letter (a, b...);
- In the box, write the number of resonances you would expect to see in a  $^1\text{H}$  NMR spectrum of the molecule.



*This has resonance structures. My advice:  
Draw a consensus structure before deciding.*



*Tricky!  
Keep definition of equivalence in mind.*