



1 Complete this table with the names and structures of some alkanes.

Displayed formula			
Name	ethane	butane	propane

2 Define the following terms.

a hydrocarbon **compound containing hydrogen and carbon only**

b saturated **contains no double bond(s)**

3 Hexane is an alkane containing 6 carbon atoms. Give its molecular formula. **C₆H₁₄**

4 Complete the table (using a ✓ in the relevant boxes) to compare two alkanes.

	most flammable	highest boiling point	most viscous	burns with cleanest flame
pentane (C ₅ H ₁₂)	✓			✓
octane (C ₈ H ₁₈)		✓	✓	

5 a Write a balanced equation for the complete combustion of pentane (C₅H₁₂).



b Write a balanced equation for the incomplete combustion of pentane (C₅H₁₂) to form carbon monoxide.

