



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

Displayed formula	$\begin{array}{c} \text{H} & \text{H} \\   &   \\ \text{H}-\text{C}- & \text{C}-\text{H} \\   &   \\ \text{H} & \text{H} \end{array}$		$\begin{array}{c} \text{H} & \text{H} & \text{H} \\   &   &   \\ \text{H}-\text{C}- & \text{C}- & \text{C}-\text{H} \\   &   &   \\ \text{H} & \text{H} & \text{H} \end{array}$
Name		butane	

2 Define the following terms.

a hydrocarbon .....

.....

b saturated .....

.....

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

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 <sub>5</sub> H <sub>12</sub> )				
octane (C <sub>8</sub> H <sub>18</sub> )				

5 a Write a balanced equation for the complete combustion of pentane (C<sub>5</sub>H<sub>12</sub>).

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b Write a balanced equation for the incomplete combustion of pentane (C<sub>5</sub>H<sub>12</sub>) to form carbon monoxide.

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