

Homework 7.3

1. Complete the following table on the properties of crude oil fractions.

Fraction	evaporation	flammability	viscosity	boiling point
Gas Fraction
Naphtha Fraction	↓	↑	↓	↓
Kerosene Fraction				
Gas Oil Fraction				
Heavy Gas Oil Fraction				
Residue				

4

2. a) When long chain hydrocarbons are broken down into shorter, more useful hydrocarbons, the process is called

1

b) Complete the following example of cracking:



1

3. a) Incomplete combustion is when there is not enough available for the fuel to burn completely.

1

b) Two substances formed by the incomplete combustion of hydrocarbon fuels are and

2

4. Sulphur impurities in coal burn to form gas, which dissolves in water to form

1

1

5. Sparks inside a petrol engine can join up nitrogen and oxygen to form nitrogen dioxide. Nitrogen dioxide dissolves in water to form 1
6. a) Car exhausts are fitted with a device to 1
turn harmful exhaust gases into harmless gases
- b) in petrol will stop the device from working. 1
7. Unleaded petrol contains the chemical benzene which can cause in 1
the human body.

total
15