

Question 32 (Answer: **C**)

- Fractions come off in order of boiling point, shortest chains first.
- Refinery gas – not naphtha – supplies bottled gas for heating and cooking.
- Match each fraction to its own use: naphtha is a chemical feedstock and kerosene is jet fuel.

Question 36 (Answer: **B**)

- Cracking splits a long alkane into a shorter alkane and an alkene.
- Hydrogen can also be released.
- No water is produced – there is no oxygen involved anywhere in cracking.

Question 34 (Answer: **C**)

- Fractions come off in order of boiling point, and their uses follow their chain length.
- Kerosene is the aircraft fuel; bitumen is used for road surfaces, not lubrication.
- Naphtha is a chemical feedstock, so "jet fuel from kerosene" is the correct pairing.