

Solutions

Each answer shows the steps, then the **result**.

2.1

- a hydrocarbon contains **hydrogen and carbon only**

2.2

- the car-fuel fraction is **gasoline / petrol**

3.1 B

- boiling point **decreases** going up the column
- A is the opposite; C and D are wrong

3.2

(a)

- the fractions have **different boiling points**
- they **condense at different heights** as the column cools towards the top

(b)

- bitumen is used for **making roads**

3.3

- fractions near the top have **smaller molecules / lower viscosity**
- so they **flow more easily** than the larger molecules near the bottom