

Solutions

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

2.1

- a polymer is a **very large molecule** made from many **monomers** joined together

2.2

- the monomer for poly(ethene) is **ethene**

3.1 A

- addition polymerisation makes **only the polymer**
- B and C would be condensation; D is false

3.2

(a)

- the C=C double bonds **open up** so the monomers can join

(b)

- $-(\text{CH}_2 - \text{CH}_2)-$ in brackets with continuation bonds

3.3

- any **two** of: build up in landfill / collect in oceans and harm sea life / burning releases toxic gases