**1** a In addition polymerisation, monomers join together without any small molecule being released / double bond opens and monomers join together.

 In condensation polymerisation, a small molecule (usually water) is released when each monomer is added to the chain.

 b 

 c This is a protein chain because there are more than two different monomers involved / protein chains are built from 20 different amino acids.

 d

 **2** a amino acids

 b by heating overnight with concentrated hydrochloric acid

 c (acid) hydrolysis