You have been asked to set up the LAN for a conference building. The building has 4 rooms, and each room is equipped with a wireless access point (WAP). Each conference room should be in a different LAN and has a capacity of 1000 people. You can ignore the external interface of R1, the internal interface of R2 and the broadcast IP addresses.

What is the subnet you would assign to each wireless access point? What is the IP address you would assign to each WAP? Write each IP address and subnet in both decimal and binary notation. Explain your decisions.