Your boss wants you to create a subnet scheme that gives your company eight networks with at least 10 hosts per network. Which subnet mask for a Class C leased network address meets those objectives?

255.255.255.240

At least 10 hosts per network: 2^3 = 8 does not satisfy 10 hosts per network, so we use 2^4=16.

255.255.255.0000 0000

0000 0000

0000: 4 bits host

0000: 4 bits network => 2^7 + 2^6 + 2^5 + 2^4 = 240