Question 1- Solution

Requirements:

Subnet Name	IPs Needed	Comments
A	10	Production
B	2	Router Link
C	15	QA
D	60	Development
E	30	HR & Internet

Subnets:

Subnet Name	IPs Needed	Allowed	Network ID	Valid IP Range	Broadcast Address	Subnet Mask
D	60	62	192.168.1.0/26	192.168.1.1 - .62	192.168.1.63	255.255.255.192
E	30	30	192.168.1.64/27	192.168.1.65 - .94	192.168.1.95	255.255.255.224
C	15	30	192.168.1.96/27	192.168.1.97 - .126	192.168.1.127	255.255.255.224
A	10	14	192.168.1.128/28	192.168.1.129 - .142	192.168.1.143	255.255.255.240
B	2	2	192.168.1.144/30	192.168.1.145 - .146	192.168.1.147	255.255.255.252