Cyber Security Essentials | Batch 1 | Day 2 | LetsUpgrade

Classwork

Q1. Calculate the subnet mask for 50 nodes.

Q2. Calculate the subnet mask for 62 nodes

$$2_{bits off} - 2 = 62$$

 $2_{\text{bits off}} = 64$

2bits off =26

bits off = $\frac{6}{}$

Therefore the subnet mask is,

11111111.11111111.11111111.11000000

Or 255.255.255.192

Q3. Calculate the subnet mask for 124 nodes

 $2_{\text{bits off}} - 2 = 124$

2 bits off= 126

log 2 bits off = log 126

bits off $\log 2 = \log 126$

bits off =log 126/log 2

bits off =6.9 which is nearly equal to 7.

Therefore the subnet mask is,

11111111.111111111.11111111.10000000

Or 255.255.255.128