

# Subnetting

129.123.7.55 AND 255.255.255.0= 129.123.7.0

129.123.7.148 AND 255.255.255.0=129.123.7.0

129.123.7.0 COMPARED (MINUS) TO 129.123.7.0= 0.0.0.0

129.123.25.77 AND 255.255.255.0=129.123.25.0

129.123.7.0 COMPARED (MINUS) TO

129.123.25.0=0.0.18.0

Since there is a non-zero result, the request must be forwarded to the routed via the gateway address.

# Subnetting continued

Address range	Subnet Mask	Gateway
129.123.51.1-62	255.255.255.192	129.123.51.63
129.123.51.65-125	255.255.255.192	129.123.51.126
129.123.51.129-189	255.255.255.192	129.123.51.190
129.123.51.193-253	255.255.255.192	129.123.51.254

129.123.51.50 AND 255.255.255.192 = 129.123.51.0

129.123.51.70 AND 255.255.255.192 = 129.123.51.64

COMARISON: ABS(0 – 64) = 64, go to router (gateway)

# Link Layer

- Ethernet
- PPP
- Token rings