

Subnet Calculation Exercise

Part 1. Determine class of address. Determine appropriate default subnet mask.

1. 210.23.67.102, 2. 66.23.148.0, 3. 191.249.222.234, 4. 127.0.0.1,5. 224.23.108.23, 6. 192.254.23.123

Part 2. Determine class of address. First determine appropriate default subnet mask.

Second determine the appropriate custom subnet mask that provides:

a.Subnets \geq Physical Segments b.Host IDs \geq Hosts per Physical Segment

	Example	Scenario 1	Scenario 2	Scenario 3
Required number of physical segments	5	100	100	4
Maximum number of hosts per physical segment	5000	88,000	350	1,500,000
Network address	152.77.0.0	39.0.0.0	177.133.0.0	120.0.0.0
Proposed custom subnet mask	255.255.224.0			
Number of supported subnets	6			
Maximum number of hosts per subnet	8190			

Part 3. What are the three IP networks reserved for private addresses and their corresponding default subnets.

(prepared by tjmonsi)

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