

IP Addressing Practice Problems

Identify The Address Class of the Following Addresses:

Review: Address Classes A, B, and C

210.23.67.102

66.23.148.0

158.23.251.33

144.23.117.254

192.254.23.123

144.207.78.1

63.125.23.211

192.25.128.36

128.12.254.98

134.223.156.89

127.0.0.1

224.23.108.23

223.78.27.144

77.123.28.167

191.249.222.234

19.23.12.255

188.67.76.235

134.255.123.22

143.52.213.212

207.22.45.219

117.117.117.117

193.23.255.77

199.23.255.7

145.2.229.252

238.23.177.8

Answer the Following Address Class Questions:

Review: Address Classes A, B, and C

Circle the Network ID of this address: 1.102.45.177

Circle the Host ID of this address: 196.22.177.13

Circle the Network ID of this address: 133.156.55.102

Circle the Host ID of this address: 221.252.77.10

Circle the Network ID of this address: 123.12.45.77

Circle the Host ID of this address: 126.252.77.103

Circle the Network ID of this address: 13.1.255.102

Circle the Host ID of this address: 171.242.177.109

Circle the Network ID of this address: 193.156.155.192

Circle the Host ID of this address: 21.52.177.188

Circle the Network ID of this address: 77.77.45.77

Circle the Host ID of this address: 191.252.77.13

Circle the Network ID of this address: 191.15.155.2

Circle the Host ID of this address: 221.252.117.254

Circle the Network ID of this address: 203.10.233.1

Circle the Host ID of this address: 191.2.227.19

Circle the Network ID of this address: 23.156.1.92

Circle the Host ID of this address: 121.2.199.88

Circle the Network ID of this address: 202.27.189.177

Circle the Host ID of this address: 177.222.177.28

Circle the Network ID of this address: 198.215.67.233

Circle the Host ID of this address: 128.252.17.24

Circle the Network ID of this address: 212.199.19.29

Circle the Host ID of this address: 159.255.17.218

Circle the Network ID of this address: 155.25.169.133

Circle the Host ID of this address: 191.255.217.227

What's Wrong With These Addresses:

(When used to address hosts on a network – not all are invalid.)

Recommended Process

Identify Address Class of Address

Review of Addressing Rules:

Valid Binary Converted Decimal Numbers

Class A, B and C Address Ranges

Complete Network ID or Host ID cannot be all 0's or 1's (in binary).

245.12.33.102

123.123.123.123

199.23.107.255

199.23.107.0

156.266.12.103

99.0.0.12

153.0.0.0

153.0.0.255

191.23.255.255

33.255.255.0

12.0.0.0

12.255.255.255

12.0.0.255

127.0.0.1

127.23.109.122

0.23.12.122

192.12.255.102

191.105.0.0

203.123.45.255

204.0.23.198

224.56.204.112

223.255.255.254

126.0.0.1

177.45.123.255