

Eisha Tir Raazia
17K-3730.

Date:

① 192.168.2.2/27.

class C \rightarrow 192

* subnet mask : 11111111.11111111.11111111.11100000
255.255.255.224

* network address : 192.168.2.0

no. of usable hosts = 30 Total hosts = 32 (0-31)

* broadcast address : 192.168.2.31

② 192.163.4.9/29.

Class C.

* Subnet mask : 11111111.11111111.11111111.11110000
255.255.255.248

no. of usable hosts = 6 Total hosts = 8

* Network ID : 192.163.4.8

* broadcast ID : 192.163.4.15

③ 172.223.66.22/26

Class B.

* Subnet mask : 11111111.11111111.11111111.11000000
255.255.255.192

Usable hosts = 62 Total hosts = 64

* Network address = 172.223.66.0 (0-63)

* Broadcast address = 172.223.66.63

Date:

④ 10.0.0.99 / 28

Class A.

* Subnet mask: 11111111.11111111.11111111.11110000

255.255.255.240

usable hosts = 14

Total host = 16

* network ID: 10.0.0.96

* Broadcast ID: 10.0.0.111

196+15

96 = 01100000

⑤ 25.25.20.10 / 30

Class A.

* Subnet mask: 11111111.11111111.11111111.11111100

255.255.255.252

usable host = 2

Total host = 4

* network ID: 25.25.20.8

* broadcast ID: 25.25.20.11

⑥ 35.60.68.71 / 25

class A

* Subnet mask: 11111111.11111111.11111111.10000000

255.255.255.128

usable hosts = 126

host = 128

* network ID: 35.60.68.0

(0-127)

* broadcast ID: 35.60.68.127

Date:

⑦ 14.19.13.90/29.
Class A.

* Subnet mask: 11111111 · 11111111 · 11111111 · 11111000

255 · 255 · 255 · 248

01011010

01011000 = 88

* network ID: 14.19.13.88

* broadcast ID: 14.19.13.95 \swarrow 88+7

(0-7)
Total hosts = 8

Usable hosts = 6.

⑧ 160.90.11.5/28
class B.

* Subnet mask: 11111111 · 11111111 · 11111111 · 11110000

255 · 255 · 255 · 240

101

0

usable host = 14.

Total host = 16

* network ID: 160.90.11.0

* broadcast ID: 160.90.11.15

16 8 4 2 1
1 1 1

⑨ 11.12.13.14/30
class A.

* Subnet mask: 11111111 · 11111111 · 11111111 · 11111100

255 · 255 · 255 · 252

1110

1100 = 12

usable hosts = 2

Total hosts = 4

* network ID: 11.12.13.12

(0-3)

* broadcast ID: 11.12.13.15

⑩ 100.90.80.70/25
class A.

* Subnet mask: 11111111 · 11111111 · 11111111 · 10000000

255 · 255 · 255 · 128

01000110 = 0

usable host = 126

total host = 128

* network ID: 100.90.80.0

* broadcast ID: 100.90.80.127.

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Date:

② 59.49.39.29 / 24.
class A

* subnet mask : 11111111 · 11111111 · 11111111 · 00000000
255. 255. 255. 0

usable hosts = 254

Total host = 256

* network ID : 59.49.39.0

* broadcast ID : 59.49.39.255