

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255, 255, 255, 224

$$\begin{array}{r} 00100011 \\ 11100000 \\ \hline 00100000 \end{array}$$

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

10000001, 00010000, 01000000, 00100000

129, 16, 64, 32 /27

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

129, 16, 64, 33 /27

10000001, 00010000, 01000000, 00100001

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

129, 16, 64, 62 /27

10000001, 00010000, 01000000, 00111110

$$\begin{array}{r} 32 \\ 16 \\ 8 \\ + 4 \\ 2 \\ \hline 62 \end{array}$$

5. (2 points) How many hosts are available to you in this network?

32 - 2 = 30 hosts

Quiz 5: October 29, 2015

Left Neighbor: _____

Right Neighbor: _____

This is a closed book quiz

Jordan

CE80N Larrabee Fall '15

Name: Talal Abou Harbo

0	1
1	2
2	4
3	8
4	16
5	32
6	64
7	128

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

$11111111.11111111.11111111.11000000$
 255. 255. 255. 224

$128 \quad 160$
 $64 \quad 64$
 $32 \quad 224$

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

$10000001.00010000.01000000.00100000$
 129. 16. 64. 32

applied 11100000
 10010001
 10000000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

$10000001.00010000.01000000.00100001$
 129. 16. 64. 33

$32 + 01 = 33$

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

$10000001.00010000.01000000.00111110$
 129. 16. 64. 62

$= 2^5 + 2^4 + 2^3 + 2^2 + 2^1$
 $= 32 + 16 + 8 + 4 + 2 = 62$

$32 + 16 + 8$
 $+ 4 + 2$

 $= 70 + 40$
 $+ 2$

 62

5. (2 points) How many hosts are available to you in this network?

$32 - 27 = 5$

$2^5 - 2 = 32 - 2 = \boxed{30}$

Quiz 5: October 29, 2015

Left Neighbor: Vanessa Franco

Right Neighbor: Carly Ellison

This is a closed book quiz

64
120+8
128

10
10

ID# 1442840

Name: Ahmed Almutawa

You have been told your Computer's IP address is 129.16.64.35 /27.

192 + 32 = 224
128 + 64 + 32

1. (1 point) What is the dotted-decimal representation for your subnet mask?

11111111.11111111.11111111.11000000

255.255.255.224

11000000

128 + 96

216 + 14 = 224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

10000001.00010000.01000000.00100000

~~128~~ 192.16.64.32 /27

129.16.64.35

10000001.00010000.01000000.00100011

11111111.11111111.11111111.11000000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

10000001.00010000.01000000.00100001

129.16.64.33 /27

30

16 14

16 8 8

11110

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

10000001.00010000.01000000.00111110

129.16.64.62 /27

30

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2

Quiz 5: October 29, 2015

Left Neighbor: Christopher Mendicino

Right Neighbor: Jimmy

This is a closed book quiz

5.5
10

yalda

CE80N Larrabee Fall '15

Name: Terra Andrade

You have been told your Computer's IP address is 129.16.64.35 /27.

129
64 r1
32 r0
16 r0
8 r0
4 r0
2 r0
1 r0

64
32 r0
16 r0
8 r0
4 r0
2 r0
1 r0

35
17 r1
8 r1
4 r0
2 r0
1 r0
0 r1

1. (1 point) What is the dotted-decimal representation for your subnet mask?

-0.5
10000001.00000000.01000000.00100011
11111111.11111111.11111111.11100000

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

-2
255.255.255.32
10000001.00010000.01000000.00100000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

10000001.00010000.01000000.00000000
129.16.64.35/

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

10000001.00010000.01000000.11111110
-1
129.16.64.35/31

5. (2 points) How many hosts are available to you in this network?

-1
~~2⁴ - 2 = 16 - 2 = 14~~
2⁵ - 2 =
2⁴ - 2 = 16 - 2 = 14

Quiz 5: October 29, 2015

Left Neighbor: Jinhao Su

Right Neighbor: OSCAR Guevara

This is a closed book quiz

$2 \begin{array}{r} 064 \\ 129 \\ \hline 11 \\ 144 \end{array}$
 $2 \begin{array}{r} 4 \\ 8 \\ \hline 12 \end{array}$
 $2 \begin{array}{r} 4 \\ 8 \\ \hline 12 \end{array} = 0$
 $2 \begin{array}{r} 4 \\ 8 \\ \hline 12 \end{array} = 0$
 $2 \begin{array}{r} 4 \\ 8 \\ \hline 12 \end{array} = 0$
 $2 \begin{array}{r} 4 \\ 8 \\ \hline 12 \end{array} = 0$
 $2 \begin{array}{r} 4 \\ 8 \\ \hline 12 \end{array} = 0$
 $2 \begin{array}{r} 4 \\ 8 \\ \hline 12 \end{array} = 0$

CE80N Larrabee Fall '15 Name: Christiaan Angel

You have been told your Computer's IP address is 129.8.32.35 /27.

$10000001.00001000.00100000.00100000$
 $11111111.11111111.11111111.11111111$

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255.255.255.224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129.8.32.32

10000001.00001000.00100000.00100000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

129.8.32.36

10000001.00001000.00100000.00100100

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

129.8.32.62

10000001.00001000.00100000.00111110

5. (2 points) How many hosts are available to you in this network?

$2^5 - 2 = 30$

$32 - 2 = 30$

$2 \begin{array}{r} 31 \\ 62 \\ \hline 6 \\ 68 \end{array}$
 $2 \begin{array}{r} 15 \\ 31 \\ \hline 2 \\ 33 \end{array}$
 $2 \begin{array}{r} 2 \\ 15 \\ \hline 2 \\ 17 \end{array}$

Quiz 5: October 29, 2015

Left Neighbor: manique Lopez

Right Neighbor: Jaumiro Perez

This is a closed book quiz

9.5
10 VALDA

CE80N Larrabee Fall '15

Name: Marcos Antônio de Jesus Filho

You have been told your Computer's IP address is 129.16.64.35 /27.

10000001.00010000.01000000.00100011

1. (1 point) What is the dotted-decimal representation for your subnet mask?

11111111.11111111.11111111.11100000

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

Binary: 10000001.00010000.01000000.00100000

Dotted-dec: 29.16.64.32

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

B: 10000001.00010000.01000000.00100001

D-D: 29.16.64.33

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

B: 10000001.00010000.01000000.00111110

D-D: 29.16.64.62

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2

Quiz 5: October 29, 2015

Left Neighbor: Aung Myun (Ken)

Right Neighbor: TIFFANY KWOK

This is a closed book quiz

Yalda

8
10

CE80N Larrabee Fall '15

Name: Melody Arnaud

You have been told your Computer's IP address is 129.16.64.35 /27.

32
-27
5

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255.255.255.224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

10000001.00010000.01000000.00100000

129.16.64.32/27

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

10000001.00010000.01000000.00100001

129.16.64.33/27

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

10000001.00010000.01000000.00111110

129.16.64.62/27

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2

Quiz 5: October 29, 2015

Left Neighbor: Danna Lin

Right Neighbor: McKenna C.

This is a closed book quiz

128 64 32 16 8 4 2 10
8 7 6 5 4 3 2 10

$$\begin{array}{r} \overset{1}{1}28 \\ + 64 \\ + 32 \\ \hline 224 \end{array}$$

$$\begin{array}{r} \overset{2}{3}2 \\ + 16 \\ + 8 \\ + 4 \\ + 2 \\ \hline 52 \end{array}$$

2 3 4 3 2 1 2⁰

10
10

TA: yalla

CE80N Larrabee Fall '15

Name: Brenda Arevalo

You have been told your Computer's IP address is 129.16.64.35 /27. network address host ID

[10000000]. 00010000. 01000000, 00100001]

1. (1 point) What is the dotted-decimal representation for your subnet mask?

11111111. 11111111. 11111111. 11100000
255. 255. 255. 224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

Binary: .10000000 | .00010000, 01000000, 00100000

Dotted: 129, 16, 64, 32

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

.001 [000001] Host ID - low - first - 0000 |
129. 16. 64. [33]

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

.001 [111110] Host ID - high - last - 11110
129. 16. 64. [62]
16 + 44 + 2 => 62
+ 32
62

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2

Quiz 5: October 29, 2015

Left Neighbor: John Locke

Right Neighbor: Carolina Zamora

This is a closed book quiz

10
10

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

$$\begin{array}{r} \text{11111111.11111111.11111111.11111111} \\ 128 \quad 192 \\ +64 \quad +32 \\ \hline 192 \quad 224 \end{array}$$

255.255.255.224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

$$\begin{array}{r} 129 \\ -122 \\ \hline 7 \end{array}$$

$$\begin{array}{l} 10060001.00010000.01000000.00100011 \\ 11111111.11111111.11111111.11111111 \end{array}$$

00011
00000

Subnetwork address

$$10000001.00010000.01000000.00100000$$

129.16.64.32/27

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

$$10000001.00010000.01000000.00100001$$

129.16.64.33/27

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

$$10000001.00010000.01000000.00111110$$

129.16.64.62/27

5. (2 points) How many hosts are available to you in this network?

Max hosts = $2^5 - 2$

$$\begin{array}{r} 32 \\ +16 \\ \hline 48 \\ +8 \\ \hline 56 \\ +4 \\ \hline 60 \\ +2 \\ \hline 62 \end{array}$$

Quiz 5: October 29, 2015

Left Neighbor: _____

Right Neighbor: Jamie Villa

This is a closed book quiz

7
10

CE80N Larrabee Fall '15

0 0 0 0 0 0 0 0
128 64 32 16 8 4 2 1

Name: Alexandra Avila-Flores

You have been told your Computer's IP address is 129.8.32.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255. 255 . 255 , 224

11
128
+ 64
32
224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

10000001.00001000.00100000.00100011
11111111.11111111.11111111.11100000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

00001

1

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

10000

16

5. (2 points) How many hosts are available to you in this network?

$2^5 - 2$

Quiz 5: October 29, 2015

Left Neighbor: Nobody

Right Neighbor: Brittney Hedrick

This is a closed book quiz

256 128 64 32 16 8 4 2 1

100
256
156

8.5
10

CE80N Larrabee Fall '15

Name: Wentan Bari

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?
00100011
11111111.11111111.11111111.11100000

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.
255.255.255.224
10000001.00010000.01000000.00100000

2 | 35 | 1
2 | 17 | 1
2 | 8 | 0
2 | 4 | 0
2 | 2 | 0
2 | 1 | 1

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?
129.16.64.32/27

-5
10000001.00010000.01000000.00100000
129.16.64.32/27

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?
129.16.64.62/27

10000001.00010000.00010000.00111111

5. (2 points) How many hosts are available to you in this network?
-1
 $2^{(32-27)} - 1 = 31$

Quiz 5: October 29, 2015

Left Neighbor: Charles Kwong. Right Neighbor: Wentian Bei

This is a closed book quiz

8.5 Jordan
10

CE80N Larrabee Fall '15

Name: Wentian Bai

You have been told your Computer's IP address is 129.8.32.35 /27.

2 | 129 | 1
2 | 64 | 0
2 | 32 | 0
2 | 16 | 0
2 | 8 | 0
2 | 4 | 0
2 | 2 | 0
1 | 1 | 1
2 | 32 | 0
2 | 16 | 0
2 | 8 | 0
2 | 4 | 0
2 | 2 | 0
1 | 1 | 1
2 | 35 | 1
2 | 17 | 1
2 | 8 | 0
2 | 4 | 0
2 | 2 | 0
1 | 1 | 1
25 = 32
25
25
25
25

1. (1 point) What is the dotted-decimal representation for your subnet mask?

10000001, 00001000, 00100000, 00100000
255, 255, 255, 224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129.8.32.32
10000001, 00001000, 00100000, 00100000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

-5 129.8.32.32
10000001, 00001000, 00100000, 00100000

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

129.8.32.62
10000001, 00001000, 00100000, 00111110

2^4 + 2^3 + 2^2 + 2^1 + 1
16 + 8 + 4 + 2 + 1
20
30 + 32

5. (2 points) How many hosts are available to you in this network?

2 | 2^(32-27) - 1 = 31

Quiz 5: October 29, 2015

Left Neighbor: Wentan Bai

Right Neighbor: Jia hao Xu

This is a closed book quiz

9/10

CE80N Larrabee Fall '15

Name: Gabriel Brown
Jordan

You have been told your Computer's IP address is 129.8.32.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

11111111 . 11111111 . 11111111 . 11100000

255 . 255 . 255 . 224

11
128
64
32
224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129.8.32.35

Dotted: 10000001 . 00001000 . 00100000 . 00100011

Binary: 129.8.32.32

Host

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

10000001 . 00001000 . 00100000 . 00100001

Binary: 129.8.32.33

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

10000001 . 00001000 . 00100000 . 00111111

129.8.32.63

5. (2 points) How many hosts are available to you in this network?

$2^5 - 2$

1
2
4
8
16
32
63

32) 48) 60
16) 12) 3
8) 3) 3
4) 3) 3
2) 3) 3
1

Quiz 5: October 29, 2015

Left Neighbor: Lexi

Right Neighbor: Andy Fang

This is a closed book quiz

9
10

Name: Christopher Mendick Dancy

You have been told your Computer's IP address is 129.16.64.35 (/27)
129.16.64.

128
64
32
16
8
4
2
1
256

1. (1 point) What is the dotted-decimal representation for your subnet mask?

11111111, 11111111, 11111111, 11000000
255.255.255.224

27
27
27
27
32
64
128
256

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129.16.64.32
10000001.00010000.01000000.00100000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

129.16.64.33
10000001.00010000.01000000.00100001

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

129.16.64.63
10000001.00010000.01000000.00111111

5. (2 points) How many hosts are available to you in this network?

$2^5 - 2 = 32 - 2 = 30$

32
16
8
4
2
1
63

Quiz 5: October 29, 2015

Left Neighbor: Kellan Sterling Right Neighbor: Ahmed

This is a closed book quiz

$\frac{7}{10}$

CE80N Larrabee Fall '15

Name: Annette Brennan

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

(11111111)	(11111111)	(11111111)	(11100000)
			128
			+64
			+32
			<hr/>

255.255.255.224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129.16.64.0

00100011

10000001 . 00010000 . 01000000 . 00000000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

10000001 . 00010000 . 01000000 . 00000001

129.16.64.1

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

10000001 . 00010000 . 01000000 . 00011110

129.16.64.30

5. (2 points) How many hosts are available to you in this network?

$2^5 - 2$

00100011

Yalda

Quiz 5: October 29, 2015

Left Neighbor: Christopher Seruqa

Right Neighbor: William

This is a closed book quiz

8
10

You have been told your Computer's IP address is 129.8.32.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

~~255.255.255.252 /27~~ .001|00011

→ 129.8.32.32 /27

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

10000001 .00001000 .00100000 .001|00011|

11111111 .11111111 .11111111 .11000000

→ 255.255.255.252

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

→ 129.8.32.254 /27

00001

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

→ 129.8.32.225 /27

11110
224 + 8 + 16
10110

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2

Quiz 5: October 29, 2015

Left Neighbor: Riley Drew Right Neighbor: _____

This is a closed book quiz

10
10

CE80N Larrabee Fall '15

Name: Jimmy Chen

You have been told your Computer's IP address is 129.8.32.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255.255.255.224

11100000
00000011 32+64+128

128
196
224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

10000001.00001000.00100000.00100000

00100011

129.8.32.32/27

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

10000001.00001000.00100000.00100001

32 + 1

129.8.32.33/27

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

10000001.00001000.00100000.00111110

32+64+8+4+2

48
56
60
62

129.8.32.62/27

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2

Quiz 5: October 29, 2015

Left Neighbor: Ahmed

Right Neighbor: AAA

This is a closed book quiz

golda

$$\frac{9.5}{10}$$

CE80N Larrabee Fall '15

Name: Devin Chan
1484811

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

11111111.11111111.11111111.11100000
-15

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

Binary: 10000001.00010000.01000000.00100000
Dotted decimal: 129.16.64.32 /27

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

Binary: 10000001.00010000.01000000.00100001
Dotted decimal: 129.16.64.33 /27

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

Binary: 10000001.00010000.01000000.00111110
Dotted decimal: 129.16.64.62 /27

$$2^5 + 2^4 + 2^3 + 2^2 + 2^1 + 2^0 = 31$$

5. (2 points) How many hosts are available to you in this network? $32 - 27 = 5$

$$2^5 - 2 = 30$$

Quiz 5: October 29, 2015

Left Neighbor: Sarah Schuyler

Right Neighbor: Empty seat

This is a closed book quiz

10/10

Yalda

CE80N Larrabee Fall '15

Name: YI CHING, CHEN

You have been told your Computer's IP address is 129.8.32.35 /27.

24+3

28
24

1. (1 point) What is the dotted-decimal representation for your subnet mask?

11111111 , 11111111 , 11111111 , 11100000

255 . 255 . 255 . 224

00 00011
111

35-3 → 32

2. (4 points) What is your subnet network's address? Give binary and dotted decimal.

1000 0001 , 0000 1000 , 0010 0000 , 0010 0000

129.8.32.32 /27

2 | 129 | 1
2 | 64 | 0
2 | 32 | 0
2 | 16 | 0
2 | 8 | 0
2 | 4 | 0
2 | 2 | 0
1 | 1 |

32+1

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

1000 0001 , 0000 1000 , 0010 0000 , 0010 0001

129.8.32.33 /27

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

1000 0001 , 0000 1000 , 0010 0000 , 0011 1110

129.8.32.62 /27

2 | 62 | 0
2 | 31 | 1
2 | 15 | 1
2 | 7 | 1
2 | 3 | 1
1 | 1 | 1

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2 → 30

Quiz 5: October 29, 2015

Left Neighbor: Yu-Szu, Shen

Right Neighbor: Nir

This is a closed book quiz

255.

$$2^7 = 128$$

$$2^6 = 64$$

$$2^5 = 32$$

$$2^4 = 16$$

$$2^3 = 8$$

$$2^2 = 4$$

$$2^1 = 2$$

$$2^0 = 1$$

10
10

Name: Srinivas Sureshji Cherubanti

You have been told your Computer's IP address is 129.8.32.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255.255.255.224

11111111
11100000
1111

128
64
32
224
32
16
48
8
56
4
60

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129.8.32.35 → 10000001, 00001000, 00100000, 00100011
 255.255.255.224 → 11111111 11111111 11111111 11100000
 Network Address → 10000001, 00001000, 00100000, 00100000
 → 129.8.32.32 / ~~27~~ 27

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

129.8.32.33 / 27

10000001, 00001000, 00100000, 00100001

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

129.8.32.62 / 27

10000001, 00001000, 00100000, 00111110

22
16
8
4

5. (2 points) How many hosts are available to you in this network?

$$2^5 - 2 = 30$$

Quiz 5: October 29, 2015

Left Neighbor: Andrew Hec

Right Neighbor: Michael Mei

This is a closed book quiz

10
10

Name: Jiyuan Chu

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255. 255. 255. ~~25~~ 224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129. 16. 64. 32 /27
10000001 00010000 01000000 00100000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

129. 16. 64. 33 /27
10000001 00010000 01000000 00100001

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

129. 16. 64. 62 /27
10000001 00010000 01000000 00111110

5. (2 points) How many hosts are available to you in this network?

30.

Quiz 5: October 29, 2015

Left Neighbor: NP

Right Neighbor: Jiayi Hou

This is a closed book quiz

10
10

You have been told your Computer's IP address is 129.8.32.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

11111111.11111111.11111111.11000000

255.255.255.224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129.8.32.32 /27

35 = 00100011
AND 11100000

00100000 = 32

10000001.00001000.00100000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

129.8.32.33 /27

33 = 00100001

10000001.00001000.00100001

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

129.8.32.62 /27

62 = 00111110

10000001.00001000.00111110

5. (2 points) How many hosts are available to you in this network?

$$2^{32-27} - 1 (\text{network address}) - 1 (\text{broadcast address})$$

$$= 2^5 - 2$$

$$= 32 - 2 = 30 \text{ hosts}$$

Kevin Chens

Yalda

Quiz 5: October 29, 2015

Left Neighbor: None (corner)
spot

Right Neighbor: Blank seat

This is a closed book quiz

a
10

Jordan

CE80N Larrabee Fall '15

Name: Kelsey Coffman

You have been told your Computer's IP address is 129.16.64.35 /27.

11111111.11111111.11111111.11100000

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255.255.255.224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

10000001, 00010000, 01000000, 00100011
AND 11111111, 11111111, 11111111, 11100000

10000001, 00010000, 01000000, 00100000 ← Subnetwork's Address

dotted-decimal: 129.16.64.32

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

Binary: 10000001, 00010000, 01000000, 00100001

Dotted decimal: 129.16.64.33

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

Binary: 10000001, 00010000, 01000000, 00100110

Dotted Decimal: 129.16.64.38

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2 hosts (AKA 32 - 2 = 30 hosts)

Quiz 5: October 29, 2015

Left Neighbor: Bryan Winston

Right Neighbor: Eileen Mahoney

This is a closed book quiz

	2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0
	128	64	32	16	8	4	2	1
	1	1	1	0	0	0	0	0
129	1	0	0	0	0	0	0	1
16	0	0	0	1	0	0	0	0
64	0	1	0	0	0	0	0	
35	0	0	0	0	0	0	1	1

$$\begin{array}{r}
 128 \\
 + 64 \\
 \hline
 192 \\
 + 32 \\
 \hline
 224
 \end{array}$$

$$\begin{array}{r}
 35 \\
 - 32 \\
 \hline
 3 \\
 - 2 \\
 \hline
 1
 \end{array}$$

7/10 Yalobn

CE80N Larrabee Fall '15

Name: Vernon Coleman

You have been told your Computer's IP address is 129.16.64.35 /27.

1/ (1 point) What is the dotted-decimal representation for your subnet mask?

35/27 -1
1722-1

255.255.255.35

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

10000001.00010000.01000000.00100011.
Network Host

Answer:

129.16.64.32

11111111.11111111.11111111.11111111
Network Host

Answer: 10000001.00010000.01000000.00100011 - Binary

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

Binary - 10000001.00010000.01000000.00100001

Decimal - 129.16.64.33

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

Binary - 10000001.00010000.01000000.00111000

Decimal 129.16.64.56

5. (2 points) How many hosts are available to you in this network?

5

32 + 16 + 8
27
56

2⁸ 2⁷ 2⁶ 2⁵ 2⁴ 2³ 2² 2¹ 2⁰
128 64 32 16 8 4 2 1

128
128
256

Yalder

Vernon Coleman

Quiz 5: October 29, 2015

Left Neighbor: Michael

Right Neighbor: Wally

This is a closed book quiz

Net Work Addr. 000...

Mask #

$2^n - 2$

Bred.

111...

First

001

L Dec

Last

110

L Dec

$$\frac{8.5}{10}$$

CE80N Larrabee Fall '15

Name: Romari Collins

You have been told your Computer's IP address is 129.8.32.35 /27.

1000 0001, 0000 1000, 0010 0000, 0010 0011
 1111 1111 1111 1111 1111 1111 1111 1111

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255. 255. 255. 248

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

10000001, 00001000, 00100000, 00100000 /27
 129. 8. 32. 32 /27

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

129. 8. 32. 33 /27
 10000001, 00001000, 00100000, 00100001

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

129. 8. 32. 61 /27
 10000001, 00001000, 00100000, 00101110

5. (2 points) How many hosts are available to you in this network?

$$2^5 - 2$$

Yalda

Quiz 5: October 29, 2015

Left Neighbor: Ben Swanson

Right Neighbor: Terry Huynh

This is a closed book quiz

10
10

Name: Felipe Contreras #12794182

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255.255.255.224

1
128
64
192
32
224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

1000 0001 . 0001 0000 . 0100 0000 . 0010 0000

129.16.64.32 /27

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

1000 0001 . 0001 0000 . 0100 0000 . 0010 0001

129.16.64.33 /27

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

1000 0001 . 0001 0000 . 0100 0000 . 0011 1110

32
16
48
1
48
56
61

129.16.64.62

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2

Quiz 5: October 29, 2015

Left Neighbor: Oscar Guevara Right Neighbor: Robert

This is a closed book quiz

6.5
10

Name: Nick Cosman

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

11111111.11111111.11111111.11100000

255.255.255.224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129.16.64.0 /27

111000001.00010000.01000000.00000000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

.00001

.1

-5

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

.11110

.29-1

5. (2 points) How many hosts are available to you in this network?

$2^5 - 2$

Quiz 5: October 29, 2015

Left Neighbor: N/A

Right Neighbor: Wall

This is a closed book quiz

Yalda

5.5
10

CE80N Larrabee Fall '15

Name: McKenna Crofton

You have been told your Computer's IP address is 129.8.32.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

11111111. 11111111. 11111111. 11100000
255. 255. 255. 224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

110000001. 00001000. 00010000. 00000000.
129. 8. 32. 0 /27
-2

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

10000001. 00001000. 00010000. 00000001
129. 8. 32. 1 /27
-15

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

10000001. 00001000. 00010000. 00011110
129. 8. 32. 14 /27
1

5. (2 points) How many hosts are available to you in this network?

-1 2⁴ - 2
14

Quiz 5: October 29, 2015

Left Neighbor: Melody Arnaud Right Neighbor: Amande Miller

This is a closed book quiz

128 64 32 16 8 4 2 1
2⁷ 2⁶ 2⁵ 2⁴ 2³ 2² 2¹ 2⁰

Name: Xuhui Ding

You have been told your Computer's IP address is 129.8.32.35 /27.

21 2⁶ 2⁵ 2⁴ 2³ 2² 2¹ 2⁰
 128+64+32 16 8 4 2 1
 96+128 224
 00100011
 00100011
 10000001 00010000 00100000 2³ 2² 2¹
 1111111, 1111111, 1111111, 1100000

$\frac{10}{10}$

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255.255.255.224

$2^4 + 2^3 + 2^2 + 2^1$
 $16 + 8 + 4 + 2$
 30

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

binary 10000001 . 00001000 . 00100000 . 00100000
 decimal 129 . 8 . 32 . 32 / 27

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

10000001 . 00001000 . 00100000 . 00100001
 129 . 8 . 32 . 33 / 27

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

10000001 . 00001000 . 00100000 . 00111110
 129 . 8 . 32 . 62 / 27

5. (2 points) How many hosts are available to you in this network?

$2^5 - 2 = 30$

Quiz 5: October 29, 2015

Left Neighbor: —

Right Neighbor: Amirali Shahinpour

This is a closed book quiz

128 64 32 16 8 4 2 1

CE80N Larrabee Fall '15

Name: Riley Drew

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

11111111 . 11111111 . 11111111 . 11100000
255 . 255 . 255 . 224

1 1
128
+ 64
+ 32
224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

10000001 . 00010000 . 01000000 . 00100011
11111111 . 11111111 . 11111111 . 11100000
129 . 16 . 64 . 32 /27

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

10000001 . 00010000 . 01000000 . 00100001
129 . 16 . 64 . 33 /27

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

32
+ 16
48
32
+ 11
+ 20
63

10000001 . 00010000 . 01000000 . 00111110
129 . 16 . 64 . 63 /27

5. (2 points) How many hosts are available to you in this network?

$2^5 - 2$

Jordan PLEASE
THANK YOU

Riley Drew

Quiz 5: October 29, 2015

Left Neighbor: GABE RIVERA

Right Neighbor: Jessica More

This is a closed book quiz

$$\begin{array}{r} 128 \\ \hline 2^7 \end{array} \quad \begin{array}{r} 64 \\ \hline 2^6 \end{array} \quad \begin{array}{r} 32 \\ \hline 2^5 \end{array} \quad \begin{array}{r} 16 \\ \hline 2^4 \end{array} \quad \begin{array}{r} 8 \\ \hline 2^3 \end{array} \quad \begin{array}{r} 4 \\ \hline 2^2 \end{array} \quad \begin{array}{r} 2 \\ \hline 2^1 \end{array} \quad \begin{array}{r} 1 \\ \hline 2^0 \end{array}$$

10
10

Name: Carly Ellison

You have been told your Computer's IP address is 129.8.32.35 /27.

10000001. 00001000. 00100000. 00100011

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255. 255. 255. 224

11
128
64
32

224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129. 8. 32. 32 /27

10000001. 00001000. 00100000. 00100000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

129. 8. 32. 33 /27

10000001. 00001000. 00100000. 00100001

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

129. 8. 32. 62 /27

10000001. 00001000. 00100000. 00111110

2
32
16
8
4
2

62

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2

32 - 2 = 30

Quiz 5: October 29, 2015

Left Neighbor: Talal A.

Right Neighbor: Wall

This is a closed book quiz

128 64 32 16 8 4 2 1

TA: Yaida

$\frac{10}{10}$

Name: Haley Emerson
1119891

CE80N Larrabee Fall '15

You have been told your Computer's IP address is 129.16.64.35 /27.

10000001, 00010000, 01000000, 00100011 /27

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255, 255, 255, 224

11100000

1
128
+ 64
= 192
+ 32

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

10000001, 00010000, 01000000, 00100000 /27

129, 16, 64, 32 /27

22

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

10000001, 00010000, 01000000, 00100001

129, 16, 64, 33 /27

0001

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

10000001, 00010000, 01000000, 00111110

129, 16, 64, 62 /27

1110

32
+ 64
= 96
+ 32

5. (2 points) How many hosts are available to you in this network?

5 bits for host

$$2^5 - 2 = 2^5 - 2$$

56

64

Quiz 5: October 29, 2015

Left Neighbor: Jan Lantaca

Right Neighbor: Kenji Takahashi Rial

This is a closed book quiz

Jordan

$\frac{6}{10}$

CE80N Larrabee Fall '15

Name: Eric Esquivel

You have been told your Computer's IP address is 129.8.32.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

-15
128 225.225.225.31
28 61 32 8 4 2 1

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

-2
225.0.0.0
1111.0000.00000000.00000000
235 1
17 1
8 0
4 0
2 1

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

-15
2 8 0
2 16 0
2 4 0
2 4 0
2 2 0
1 1 1
129.8.32.35.000
1111111.0000001.0000001.00011001.000

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

-1
129.8.32.35.110
1111111.0000.001.000001.00011001.1110

5. (2 points) How many hosts are available to you in this network?

$2^5 - 2$

Quiz 5: October 29, 2015

Left Neighbor: Christopher

Right Neighbor: Monique Lopez

This is a closed book quiz

10
10

Yalda

CE80N Larrabee Fall '15

Name: Andy Fang

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

15 10000001.00010000.01000000.00100011

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

Binary: 129.16.64.32 /27

Dotted Dec.: 10000001.00010000.01000000.00100000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

Binary: 129.16.64.33 /27

Dotted: 10000001.00010000.01000000.00100001

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

Binary: 129.16.64.62 /27

Dotted: 10000001.00010000.01000000.00111110

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2

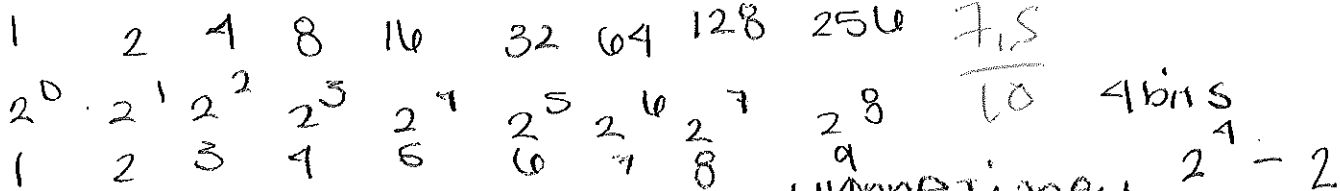
Quiz 5: October 29, 2015

Left Neighbor: Gabriel B.

Right Neighbor: Mallory Lesaca

This is a closed book quiz

Name: Yvonne Finney

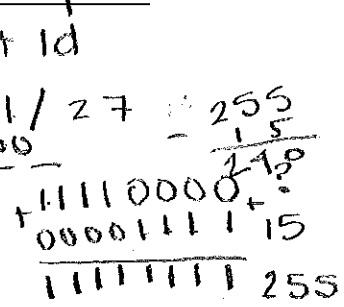


You have been told your Computer's IP address is 129.8.32.35 /27.

10000001.00001000.00100000.00100000 / 27 = 255
 11111111.11111111.11111111.11110000

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255.255.255.240

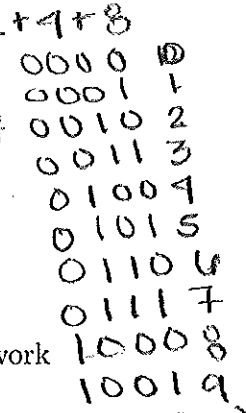


2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

10000001.00001000.00100000.00100000 / 27

35-3

129.8.32.32 / 27



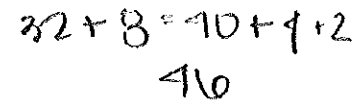
3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

10000001.00001000.00100000.00100000 / 27

129.8.32.33 / 27

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

10000001.00001000.00100000.00101110 / 27



129.8.32.46 / 27

5. (2 points) How many hosts are available to you in this network?

2^4 - 2

16 - 2 = 14

Quiz 5: October 29, 2015

Left Neighbor: Stefan

Right Neighbor: empty chair

This is a closed book quiz

5.5
10

CE80N Larrabee Fall '15

Name: Kassandra Flores

You have been told your Computer's IP address is 129.8.32.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255.255.255.0

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

010000001.000001000.000100000.000100011
111111111.111111111.111111111.110000000
010000001.000001000.000100000.000000000

129.8.32.0

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

010000001.000001000.000100000.000000001

129.8.32.1

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

010000001.000001000.000100000.000111110

129.8.32.62/27

5. (2 points) How many hosts are available to you in this network?

2⁶ - 2

Yalda

Quiz 5: October 29, 2015

Left Neighbor: _____

Right Neighbor: Daniella

This is a closed book quiz

5.5
10

Name: Vanessa Franco

You have been told your Computer's IP address is 129.8.32.35 /27.

255
- 011
001100011
10000001 00010000 00100000
11111111 11111111 11111111 11000000
255 255 255 124
178 24 6
75

1. (1 point) What is the dotted-decimal representation for your subnet mask?

11111111. 11111111. 11111111. 11000000

-15

255 . 255 . 255 . 124

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129 . 8 . 32 . 188

-2

10000001 00010000 00100000 10110100

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

129 . 8 . 32 . 222

-1

10000001 00010000 00100000 11011110

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

129 . 8 . 32 . 254

-1

10000001 00010000 00100000 11111110

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2

Quiz 5: October 29, 2015

Left Neighbor: Dominic Velazquez Right Neighbor: TOTALA.

This is a closed book quiz

9
10

JORDAN

CE80N Larrabee Fall '15

Name: ROBERT GILBERT

You have been told your Computer's IP address is 129.8.32.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255.255.255.224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129.8.32.32 /27

~~0000~~

10000001.00001000.00100000.00100000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

129.8.32.33 /27

10000001.00001000.00100000.00100001

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

- (129.8.32. ~~62~~ 129.8.32.63 /27

10000001.00001000.00100000.00111110

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2

Quiz 5: October 29, 2015

Left Neighbor: PHILIPPE

Right Neighbor: Empty

This is a closed book quiz

10
10
Yalda

CE80N Larrabee Fall '15

Name: Srinija Godavarthi

You have been told your Computer's IP address is 129.16.64.35 /27.

$27 \rightarrow 11111111.11111111.11111111.11100000$

$2^7 + 2^6 + 2^5$

on.
128
64
32
16
8
4
2
1

1. (1 point) What is the dotted-decimal representation for your subnet mask?

$255.255.255.224$

2 | 129 | 1
2 | 64 | 0
2 | 32 | 0
2 | 16 | 0
2 | 8 | 0
2 | 4 | 0
2 | 2 | 0
2 | 1 | 1
0
2 | 16 | 0
2 | 8 | 0
2 | 4 | 0
2 | 2 | 0
2 | 1 | 1
0

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

$32 - 27 = 5$

$10000001.00010000.01000000.00100011$

binary = $11000000.00010000.01000000.00100000$
dotted = $129.16.64.32$ /27

2 | 35 | 0
2 | 17 | 1
2 | 8 | 0
2 | 4 | 0
2 | 2 | 0
2 | 1 | 1
0

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)? 00001

binary = $10000001.00010000.01000000.00100001$
dotted = $129.16.64.33$ /27

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)? 11110

binary = $10000001.00010000.01000000.00111110$
dotted = $129.16.64.62$ /27

$2^5 + 2^4 + 2^3 + 2^2 + 2^1$
 $32 + 16 + 8 + 4 + 2$
 62

5. (2 points) How many hosts are available to you in this network?

$2^5 - 2 = 32 - 2 = 30 \text{ hosts}$

Quiz 5: October 29, 2015

Left Neighbor: Tony Wu

Right Neighbor: Tania Ramirez

This is a closed book quiz

10
10

Yalda

CE80N Larrabee Fall '15

Name: Carlos Gonzalez

You have been told your Computer's IP address is 129.16.64.35 /27.

11
128
+ 64
+ 32

224

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255.255.255.224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

Binary: 10000001.00010000.01000000.00100000

Dotted Decimal: 129.16.64.32 /27

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

Binary: 10000001.00010000.01000000.00100001

Dotted Decimal: 129.16.64.33 /27

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

Binary: 10000001.00010000.01000000.00111110

Dotted Decimal: 129.16.64.62 /27

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2 or 30

Quiz 5: October 29, 2015

Left Neighbor: Hongjie Yin

Right Neighbor: Charles Kwong

This is a closed book quiz

9
10

Name: Oscar Guevara

You have been told your Computer's IP address is 129.8.32.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255.255.255.224

129 32
0000 0000
11 16 8 4 2 1

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129.8.32.32 /27

10000001 00001000 00100000 11100000
00100011

10000001, 00001000, 00100000, 00100000

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

129.8.32.33 /27

10000001, 00001000, 00100000, 00100001

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

129.8.32.61 /27

10000001, 00001000, 00100000, 00111110

00111110
32
116 > 48 } 56
18
14
12

5. (2 points) How many hosts are available to you in this network?

$(2^{15}) - 2 \approx 30$

Quiz 5: October 29, 2015

Left Neighbor: Terra Andrade Right Neighbor: Felipe Centurios

This is a closed book quiz

9.5
10

Name: Michael Ha.

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

~~It separates the 32 bit address into 4 groups of 8 bits~~

-5

11111111.11111111.11111111.11100000

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

10000001,00010000,01000000,00100000

128

52

27

129.16.64.32/27

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

129.16.64.33/27

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

101110
32 16 8 4 2

129.16.64.62/27

5. (2 points) How many hosts are available to you in this network?

30

Quiz 5: October 29, 2015

Left Neighbor: Thong

Right Neighbor: Michael N

This is a closed book quiz

Quiz 5: October 29, 2015

Left Neighbor: Wookjin Jung

Right Neighbor: Slors

This is a closed book quiz

128 64 32 16 8 4 2 1
 1 2 3 4 5 6 7 8

$$10 - 7.5 = \frac{2.5}{10}$$

CE80N Larrabee Fall '15

Name: Christopher Harkitt

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

~~255.255.255~~ 225.225.225

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

129.8.32.35

10000001 00001000 00100000 00100011

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

129.8.32. ~~31~~ 1

~~10000000~~
 10000001 00001000 00100000

00100001
~~00000001~~
~~00100001~~

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

129.8.32.30

10000000 00001000 00100000

00100111
~~00000111~~
~~00100111~~

5. (2 points) How many hosts are available to you in this network?

~~30~~ 2⁵ - 2

Quiz 5: October 29, 2015

Left Neighbor: Johnathon

Right Neighbor: Eric

This is a closed book quiz

15
10

Name: Brittany Hedrick

You have been told your Computer's IP address is 129.16.64.35 /27.

1. (1 point) What is the dotted-decimal representation for your subnet mask?

11111111.11111111.11111111.11100000

32 - 255
31 - 250
29 - 248
28 - 240
27 -

-15

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

binary 10000001.00010000.01000000.00100011
11111111.11111111.11111111.11100000

255.255.255.

-2

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

10000001.00010000.01000000.00100011
11111111.11111111.11111111.11111000

4. 2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

10000001.00010000.01000000.00100011
11111111.11111111.11111111.11111111

5. (2 points) How many hosts are available to you in this network?

4

Quiz 5: October 29, 2015

Left Neighbor: Alexa Avila

Right Neighbor: MICHAEL PAPP

This is a closed book quiz

5
10

Name: Andrew Her

You have been told your Computer's IP address is 129.16.64.35 /27.

10000001.00010000.01000000.00100011
168421
00011111

1. (1 point) What is the dotted-decimal representation for your subnet mask?

255.255.255.224

32
-27
5

16
-31
255
-31
224

2. (4 points) What is your subnetwork's address? Give binary and dotted decimal.

11111111.11111111.01111111.11100000

129.16.64.224

10000001.00010000.01000000.11100000
168421

3. (1 point) What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

1st host:

129.16.64.1

2⁵ - 2 = 31 - 2 = 29

10000001.00010000.01000000.00000001

4. (2 point) What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

129.16.64.30

24
-16
30

10000001.00010000.01000000.00011110
168421

5. (2 points) How many hosts are available to you in this network?

2⁵ - 2 = 31 - 2 = 29

Quiz 5: October 29, 2015

Left Neighbor: Andrew S.

Right Neighbor: Sureish Chembani

This is a closed book quiz