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Esercizio indirizzi Ip da analizzare:

1) 128.1.6.5/12

Ip Network: 128.0.0.0

Subnet: 11111111.11110000.00000000.00000000

Trasformazione binaria= 10000000.0000 0001.00000110.00000101(4 ottetti)

128= 10000000

128/2 0

64/2 0

32/2 0

16/2 0

8/2 0

4/2 0

2/2 0

1/2 1

1= 00000001

1/2 1

0

0

0

0

0

0

0

6= 00000110

6/2 0

3/2 1

$\frac{1}{2}$  1

0

0

0

0

0

5= 00000101

5/2 1

2/2 0

$\frac{1}{2}$  1

0

0

0

0

0

10000000.0000 0001.00000110.00000101

11111111.11110000.00000000.000000000 = AND

A	B	A $\wedge$ B
0	0	0
0	1	0
1	0	0
1	1	1

---

10000000.0000 000.00000000.000000000

. Trasformiamo in decimale:

10000000 (si parte da 2 alla 0 arrivando 7)

$2^7 = 128$

128.0.0.0

6/2 0

$\frac{3}{2}$  1  
 $\frac{1}{2}$  1  
 \_\_\_\_\_200=11001000\_\_\_\_\_

$\frac{1}{2}$  1  
 0  
 0  
 0  
 0  
 0  
 0  
 0  
 \_\_\_\_\_1=00000001

$\frac{2}{2}$  0  
 $\frac{1}{2}$  1  
 0  
 0  
 0  
 0  
 0  
 0  
 \_\_\_\_\_2=00000010

$\frac{3}{2}$  1  
 $\frac{1}{2}$  1  
 0  
 0  
 0  
 0  
 0  
 0  
 3=00000011

(IP)Numero decimale: 11001000.00000001.00000010.00000011

Subnet in decimale: 11111111.11111111.11111111.00000000 = AND

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11001000.00000001.00000010.00000000 (IP Network)

. Trasformo in decimale:  $2^3=8$

$2^6=64$

$2^7=128$

$128+64+8=200$

. IP Gateway: 200.001

. IP Broadcast: 11001000.00000001.00000010.00000000 OR  
00000000.00000000.00000000.11111111 =

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11001000.00000001.00000010.11111111

. Ottetti per gli host: 1

. Ottetti per la network: 3