

## Solution to Exercise 3

Soumis par CCNA

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- You want 6 IP addresses on a C class network. How will you subnet ?

$2^N - 2 \geq 6 \rightarrow N = 3 \rightarrow$  last byte : 3 bits to host/5 bits to network  $\rightarrow /29$

- You want 10 IP addresses on a C class network. How will you subnet ?

$2^N - 2 \geq 10 \rightarrow N = 4 \rightarrow$  last byte : 4 bits to host/4 bits to network  $\rightarrow /28$

- You want 12 IP addresses on a C class network. How will you subnet ?

$2^N - 2 \geq 12 \rightarrow N = 4 \rightarrow$  last byte : 4 bits to host/4 bits to network  $\rightarrow /28$

- You want 27 IP addresses on a C class network. How will you subnet ?

$2^N - 2 \geq 27 \rightarrow N = 5 \rightarrow$  last byte : 5 bits to host/3 bits to network  $\rightarrow /27$

- You want 32 IP addresses on a C class network. How will you subnet ?

$2^N - 2 \geq 32 \rightarrow N = 6 \rightarrow$  last byte : 6 bits to host/2 bits to network  $\rightarrow /26$

- You want 64 IP addresses on a C class network. How will you subnet ?

$2^N - 2 \geq 64 \rightarrow N = 7 \rightarrow$  last byte : 7 bits to host/1 bit to network  $\rightarrow /25 \rightarrow$  subnetting not allowed

- You want 100 IP addresses on a C class network. How will you subnet ?

$2^N - 2 \geq 100 \rightarrow N = 7 \rightarrow$  last byte : 7 bits to host/1 bit to network  $\rightarrow /25 \rightarrow$  subnetting not allowed