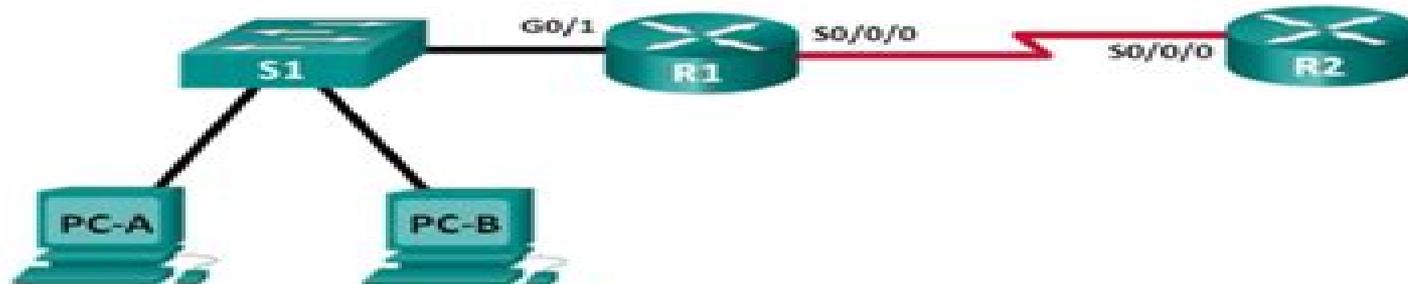


## Lab – Subnetting Network Topologies

### Part 1: Network Topology A

In Part 1, you have been given the 192.168.10.0/24 network address to subnet, with the following topology. Determine the number of networks needed and then design an appropriate addressing scheme.



#### Step 1: Determine the number of subnets in Network Topology A.

a. How many subnets are there?

Subnet 1: PC-A, PC-B, Switch S1

Subnet 2: link between R1 and R2

So, the total required subnet = 2

b. How many bits should you borrow to create the required number of subnets?

192.168.10.0/24 has a default subnet mask of 255.255.255.0 => **8 host bits are available**

We have  $2^n \geq \text{required subnets}$  so to create at least 2 subnets, we need to borrow at least 1 bit from the host portion. ( $2^1 = 2$ )

c. How many usable host addresses per subnet are in this addressing scheme?

The number of host addresses per subnet:

$$2^{(8-1)} - 2 = 128 - 2 = 126$$

# Cisco Lab Subnetting Network Topologies Answers

**SJ Ball**



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