VLAN configuration and analysis

Switch A

interface FastEthernet0/2
switchport trunk allowed vlan 12,13
switchport mode trunk
interface FastEthernet0/5
switchport access vlan 12
interface FastEthernet0/8
switchport access vlan 13

Switch B

interface FastEthernet0/11
switchport trunk allowed vlan 45,46
switchport mode trunk
interface FastEthernet0/18
switchport access vlan 45
interface FastEthernet0/21
switchport access vlan 46

Switch C

interface FastEthernet0/24
switchport trunk allowed vlan 78,79
switchport mode trunk
interface FastEthernet0/27
switchport access vlan 78
interface FastEthernet0/29
switchport access vlan 79
1. **VLAN configuration**

   A. Given the configuration of the intermediate switch as listed above, configure coherently the VLAN on the routers in your workplace (e.g., R1, R2 and R3 in Workplace1).

   B. Configure some IP addresses of your choice on the routers in your workplace, coherently with the VLANs configured.

   C. Configure a default route on routers R2,R3 (Workplace1), R5,R6 (Workplace2) or R8,R9 (Workplace3) so that they can ping each others correctly.

   D. Provide the configuration of the three routers in your workplace (e.g., R1, R2 and R3 in Workplace1).

   E. Consider the three pairs of interconnected ports on the SWITCH and routers; Comment on whether each pair of interconnected ports must have the same VLAN IDs and why.