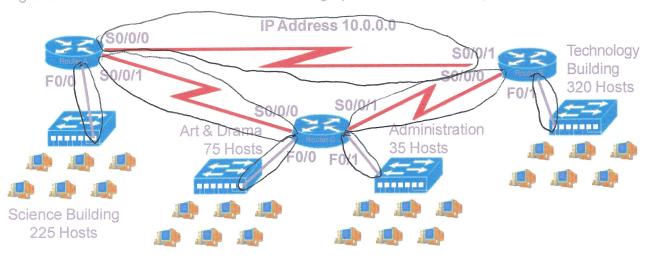
Practical Subnetting 6

Based on the information in the graphic shown, design a network addressing scheme that will supply the **minimum number of subnets**, and allow enough extra subnets and hosts for 20% growth in all areas. Circle each subnet on the graphic and answer the questions below.



Address class A

Custom subnet mask <u>IO</u>,

Minimum number of subnets needed 7

Extra subnets required for 20% growth (Round up to the next whole number)

Total number of subnets needed = 9

Start with the first subnet and arrange your sub-networks from the largest group to the smallest.

10.15.255.255 IP address range for Technology O.D.O.O. 60 (0.31.255.255 IP address range for Science 10.15.0.0 to 10.47.253-255 IP address range for Arts & Drama 0.32.00 to 10.63.255.255 IP Address range Administration 10.48.0.0 10 IP address range for Router A to Router B serial connection 10.64 00 IP address range for Router A to Router C serial connection (0.40.0.0 10.95.255.255 to IP address range for Router B 10.11.255.755 to Router C serial connection (O-