Subnetting Speed Kit — Set 4

Target time: **20 minutes** (under 1 minute per question). No calculator. Show your working. Mixed octets, more traps.

Name:	Date:	Time taken:	Score: / 20

1. **Last usable host in the subnet of 10.184.33.196/23?**
   Write: Last usable host
   Last usable: _____

2. **Smallest prefix that fits 63 hosts?**
   Write: Prefix (or mask)
   Prefix: _____

3. **Prefix length for mask 255.255.224.0?**
   Write: Prefix (e.g. /26)
   Prefix: _____

4. **Broadcast address for 10.120.28.117/21?**
   Write: Broadcast address
   Broadcast: _____

5. **172.17.171.183/22: find the network, broadcast and usable range.**
   Write: Network, broadcast and usable range
   Network: _____ Broadcast: _____
   Usable range: _____

6. **Last usable host in the subnet of 10.126.244.21/25?**
   Write: Last usable host
   Last usable: _____

7. **Broadcast address for 10.11.89.89/21?**
   Write: Broadcast address
   Broadcast: _____

8. **Mask 255.255.240.0: which octet does the block size count in?**
   Write: Tick one
   ☐ 2nd octet ☐ 3rd octet ☐ 4th octet

9. **Which network is 192.168.32.0/19 in?**
   Write: Network address
   Network: _____

10. **On a /20, what is 192.168.143.255?**
    Write: Tick one
    ☐ The network address ☐ A usable host address ☐ The broadcast address

11. **Which network is 192.0.2.0/26 in?**
    Write: Network address
    Network: _____

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12. **On a /23, what is 10.142.124.255?**
    Write: Tick one
    ☐ The network address ☐ A usable host address ☐ The broadcast address

13. **10.133.223.59/27: find the network, broadcast and usable range.**
    Write: Network, broadcast and usable range
    Network: _____ Broadcast: _____
    Usable range: _____

14. **192.168.232.173/28: find the network, broadcast and usable range.**
    Write: Network, broadcast and usable range
    Network: _____ Broadcast: _____
    Usable range: _____

15. **172.21.125.94/21: find the network, broadcast and usable range.**
    Write: Network, broadcast and usable range
    Network: _____ Broadcast: _____
    Usable range: _____

16. **Smallest prefix that fits 31 hosts?**
    Write: Prefix (or mask)
    Prefix: _____

17. **Which network is 10.83.168.159/27 in?**
    Write: Network address
    Network: _____

18. **Which network is 192.168.63.255/19 in?**
    Write: Network address
    Network: _____

19. **VLSM: 192.168.224.0/23 already has 192.168.224.0/24, 192.168.225.0/25. Next subnet for 30 hosts?**
    Write: Network with prefix
    Subnet: _____

20. **VLSM: 10.134.183.0/24 already has 10.134.183.0/25, 10.134.183.128/29. Does a subnet for 100 hosts still fit?**
    Write: Tick one
    ☐ Yes, it fits ☐ No, it doesn't fit

Answers are in a separate file (set-4-answers.pdf) at subnetcalculator.dev/subnetting-speed-kit/

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