Subnetting Speed Kit — Set 1

Target time: **20 minutes** (under 1 minute per question). No calculator. Show your working. Warm-up: /24 to /28, 4th octet, two easy VLSM.

Name:	Date:	Time taken:	Score: / 20

1. **192.168.73.233/26: find the network, broadcast and usable range.**
   Write: Network, broadcast and usable range
   Network: _____ Broadcast: _____
   Usable range: _____

2. **Smallest prefix that fits 25 hosts?**
   Write: Prefix (or mask)
   Prefix: _____

3. **Smallest prefix that fits 30 hosts?**
   Write: Prefix (or mask)
   Prefix: _____

4. **192.168.60.26/26: find the network, broadcast and usable range.**
   Write: Network, broadcast and usable range
   Network: _____ Broadcast: _____
   Usable range: _____

5. **203.0.113.103/27: find the network, broadcast and usable range.**
   Write: Network, broadcast and usable range
   Network: _____ Broadcast: _____
   Usable range: _____

6. **How many usable hosts in a /27?**
   Write: Number of hosts
   Usable hosts: _____

7. **192.0.2.204/27: find the network, broadcast and usable range.**
   Write: Network, broadcast and usable range
   Network: _____ Broadcast: _____
   Usable range: _____

8. **Block size (magic number) for /25?**
   Write: Block size
   Block size: _____

9. **192.168.31.241/27: find the network, broadcast and usable range.**
   Write: Network, broadcast and usable range
   Network: _____ Broadcast: _____
   Usable range: _____

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10. **Subnet mask for /25?**
    Write: Dotted-decimal mask
    Mask: _____

11. **Which network is 203.0.113.230/27 in?**
    Write: Network address
    Network: _____

12. **Which network is 172.18.217.66/26 in?**
    Write: Network address
    Network: _____

13. **Prefix length for mask 255.255.255.128?**
    Write: Prefix (e.g. /26)
    Prefix: _____

14. **Which network is 172.29.154.186/27 in?**
    Write: Network address
    Network: _____

15. **172.28.164.247/26: find the network, broadcast and usable range.**
    Write: Network, broadcast and usable range
    Network: _____ Broadcast: _____
    Usable range: _____

16. **Smallest prefix that fits 60 hosts?**
    Write: Prefix (or mask)
    Prefix: _____

17. **Which network is 203.0.113.182/25 in?**
    Write: Network address
    Network: _____

18. **Which network is 192.168.231.144/26 in?**
    Write: Network address
    Network: _____

19. **VLSM: split 172.28.56.0/24 for 2, 54 hosts, largest first. Which subnet does the 2-host LAN get?**
    Write: Network with prefix (e.g. 10.0.0.64/27)
    Subnet: _____

20. **VLSM: split 10.3.104.0/24 for 123, 2, 3 hosts, largest first. Which subnet does the 2-host LAN get?**
    Write: Network with prefix (e.g. 10.0.0.64/27)
    Subnet: _____

Answers are in a separate file (set-1-answers.pdf) at subnetcalculator.dev/subnetting-speed-kit/

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