Q3.

Longest prefix match

|  |  |
| --- | --- |
| Prefix match | Link interface |
| 11100000 00 | 0 |
| 11100000 01000000 | 1 |
| 11100000 01 | 2 |
| 11100001 1 (11100001 01 + 1) | 3 |
| Otherwise | 3 |

|  |  |
| --- | --- |
| 11001000 10010001 01010001 01010101 | 3 |
| 11100001 01000000 11000011 00111100 | 2 |
| 11100001 10000000 00010001 01110111 | 3 |

Q4

2400 / 700 = 3.43 -> 4

(700 – 20) / 8 = 85

0 85 170 255