**Activity – IPv4 addresses**

1) Examine the IPv4 addresses below. Which are valid IPv4 addresses and which are invalid IPv4 addresses? Give a reason for each.

a) 192.168.201 b) 192.0.0.1 c) 192.0.20.256 d) 192.511.11.11

e) 82.6.3.1 f) 252.255.255 g) 1.1.1.1 h) 83.98.301.80

a) Invalid b) Valid c) Invalid d) Invalid

e) Valid f) Invalid g) Valid h) Invalid

2) Convert the denary binary IPv4 addresses below into a form usable by the computer (binary):

a) 68.255.0.181

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Denary | 68. | 255. | 0. | 181. |
| Binary | 01000100 | 11111111 | 00000000 |  |

**Answer:**

b) 212.35.194.6

**Extension**: find more IPv4 addresses and convert them to binary.