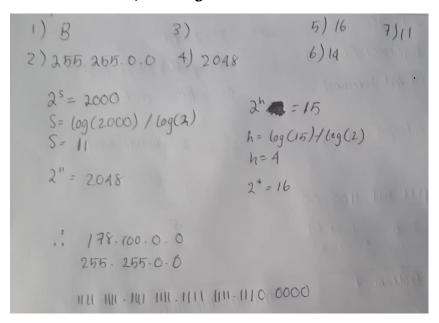
# **Online Gaming**

### Francis Carroll - C00226918

#### **Custom Subnet Masks**

#### Problem 7 – Rough



## Problem 7 – Answers

problem 7
B
255.255.0.0
255.255.224
2048
16
14
No. of the Control of
Address: 178.100.0.0
Default Subnet: 255.0.0
Bits borrowed: 11
111 1111.1111.1111.1111.111.111.111.111
255 . 255 . 255 . 224

### Problem 15 – Rough

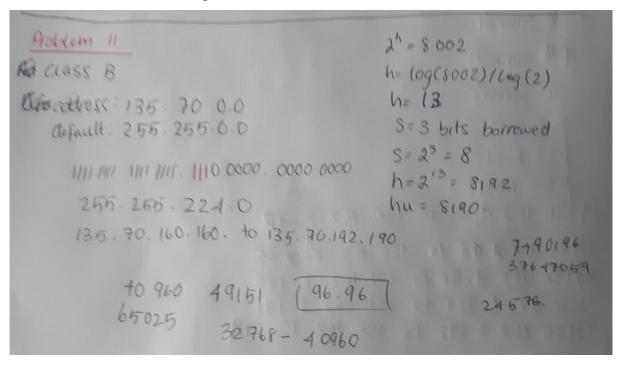
$$2^{n} = 1000$$
 $n = log(1000) / log(2)$ 
 $n = (log(60) / log 2) - 2$ 
 $n = 10 bit borrowed$ 
 $n = 6 bits for host$ 
 $2^{10} = 1024 subnets$ 
 $2^{6} - 2 = 62 usable hosts$ 
 $1111 1111 .1100 00$ 
 $2^{45} 128 + 64$ 
 $192$ 

## Problem 15 – Answers

problem 15
В
255.255.0.0
255.255.255.192
1024
64
62
10

## **Subnetting**

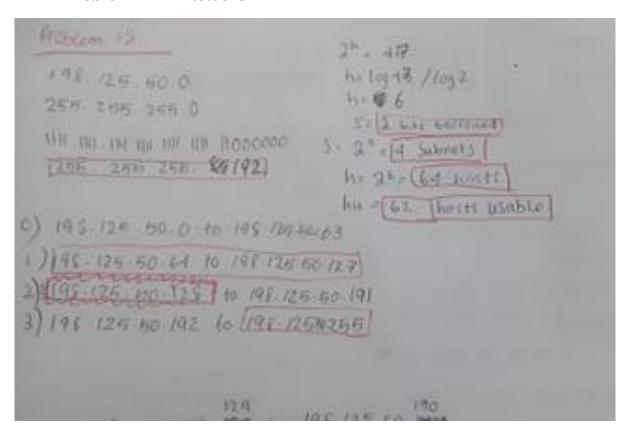
## Problem 11 – Rough



#### Problem 11 - Answers

Problem 11
B
255.255.00
255.255.224.0
8
8192
8190
3
135.70.160.160 to 135.70.192.191
135.70.192.192.
135.70.96.95
135.70.128.129 to 135.70.160. WK 159.

#### Problem 12 - Answers



### **Practical Subnetting**

## Problem 4 – Answers

```
Practical Subnetting 4
  255.255.224.0 => 1110 0000=224
   5 Subnets
  4 & Subnets
   9 Subnets
  325 hosts
   228 hosts
  553 hosts
0) 135 162.0.0 to 135.162.2.42
1) 135.162.2.43 to 135.162. Rich 85
2) 135.162.4.86 to 135.162.6.128
3) 135.162.6.129 to 135.162.8.171
4) 135.162.8.172 to 135.162.10.214
```

#### Problem 6 - Answers

```
4 35% 25 60 0
Practical Submitting to
19
4 bits borowed => m4 coco
 255 240 0 0.
  £2 Summers at 20%
  89 February Submets
  320 hoses
  64 Breded bests
  384 force hosts
3) 10.0.0.0 to 10 1.128 0
17 10 1 129 0 10 10 3 2 0
2) 10 3 3 0 to 10 4 131 0
3) 10 8+ 132 0 10 10 6 5 0
+) 10 6 6 6 6 10 7 134 0
5) 10 7 155 0 to 10 9 8 0
6)10-9-9-0 40 10-10-137-0.
```