D as 192 168. 100.12 Ybile entruthing Class C = 755 255 255 255 6 THIRTH WILLIAM THE SHEET (m) and = 2" = 16 subjects 17.116 = 1 3197 168 100 16 object about 497.168 (00 17 16+15-31 3 192.168 100 31 & hendrast 491 168 100 50 by 192 167 100.66 36h subrathing (lass C => 255 255 255 0 · · · · 441 00000 127 178164132 = 224 255 255 255 224 Subject = 23 = 8 subjects host = 25-2=30 2.12=64 ] 192 168 100 64 indexit address 7 range 197, 168, 100 65 => hest 50 197-168 100 95 broadoust C1 172.66.10 5 120 11111111. 11111111. 1111.000 cocco type B host => 22-2 = 4094 lost Cubnels = 24=16 subrets 10/10=01 172.16.0.0 redwork address 172.16.0.1 372 16 0000 1111 111111 => 171.16.15.756 brookers

d, 172.36.10.33 / 755.255.252.0 Type B 1444144 . 4441444 . fills 100 corner Subrate = 2 = 64 host = 210-2 = 1022 host nationally address The second to appoint 192.16.00000011.241114 @ I'm going to use the formula 2m - 2 > hort 2m-27/14 => 50 the next rear number is 27=128 カーチョンマーユ=176 Type C network will be the most affected -> 128 to binary 255. 255. 285.0 255. 255. 255. 100000 -, 255. 255. 155. 18 (3) Notwork address => 192.168.10.0 => Type C Submit => 755.255.255.192 255. 255. 255. 21000000 subnets => 22 = 4 subnets host => 26-2 = 62 per subnet The magic number is 64= 256-192=64 So, 18 we need 4 whetheres => 197.168 10.0 2+64
197.168.10.1282
197.168.10.122 9 Mosk 12# 255.255.255. 111 00000 Rule IP= 173.37.2.62 PCID=173 so we have 23 bulones => 3 subnets and 25-7 host => 30 host per public The magic number is 256-224 = 32 The of network 173.32.2.0 173 32.2.22 -> roude valuer } Different subrats 173.37.2.96

(5) 25 host rompules per subrud Type C relwork with the host formula 2"-2225=725-2=30 the most similar So we will be lefting 5 bits empty -> 255 255 255 14100000 255 255 255 224 With the use bits we realise we can have 23 = 8 subnuts, but only some model We calculate the major number 256 - 224 = 32 +32 [ 1- Subnet 192 163.162.0 .1 - .30] 2- Subnet 192.168 162.32 .33 -.62 3- Subrat 197. 168. 167.64 .65-.94 .127 4" Subnet 192. 168. 162.96 .97-126 S. Subnet 192. 168. 162.128 .129-.158 We have 3 more subnets but the dient only needed 5 1000 subnets (6) 18 mask At is a type A gravele submetwork [2" = 1024] => 295. HHIHM. HOLDER CHEECE /18 755.255. 192. 0 => network mask 64 => Magic Number B(10000)1 10.018.0 10.0.02.0 last which pe octob 10.255 178 0 -> penultimate network