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and:

15010 1177 student Info IP: 15010 473 (Section (8) Example: * An area of (14×15) km having (1050) comm. channels, determine the following: 1- The number of users before cellular concept application. 2-Using cells each of 2 km², then determine the number of frequency vecese if we use eluster Size = 3 cells and then the number of users. 3- repeat (2) if the cluster size = 7 tells. 4- comment on the results in 1) = 2 43. (1) # users | = # Channels = 1050 users

before Cellular (4 Channel for each user)

system 2 + # cells = tot area = 14 * 15 = 105 cells + # clusters = # cells = # cells = 105 = 35 cluster = Cluster size = 3 = 35 00 # freq reuses = # clusters = 35 freq reuses 1 # Users) = # channels * # freq reuses = # Users/cluster * # Clusters = 1050 + 35 = 367

