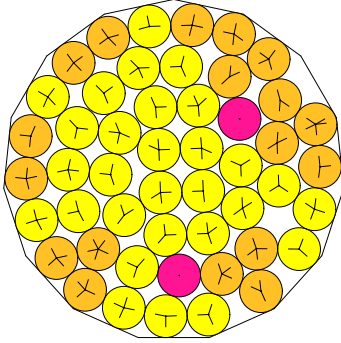


N = 49

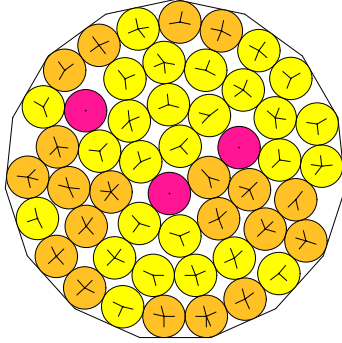
49 circles in a pentadecagon



radius = 0.125056825729 density = 0.789198391250
ratio = 7.996364805923 contacts = 95

N = 50

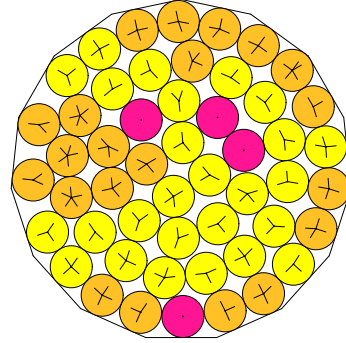
50 circles in a pentadecagon



radius = 0.123991417245 density = 0.791641516155
ratio = 8.065074359330 contacts = 95

N = 51

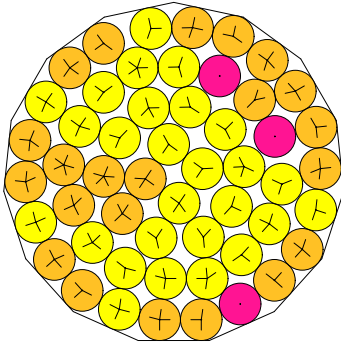
51 circles in a pentadecagon



radius = 0.122907586240 density = 0.793419490706
ratio = 8.136194278927 contacts = 95

N = 52

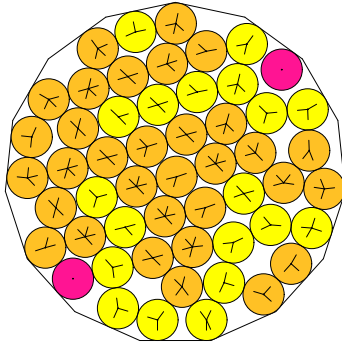
52 circles in a pentadecagon



radius = 0.121794550867 density = 0.794310992558
ratio = 8.210547950485 contacts = 99

N = 53

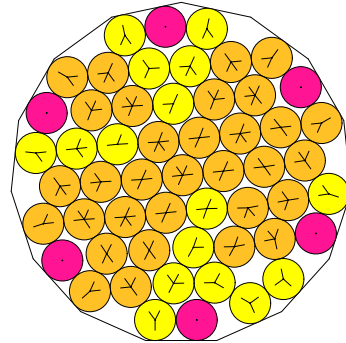
53 circles in a pentadecagon



radius = 0.120558234060 density = 0.792624194560
ratio = 8.29283418336 contacts = 103

N = 54

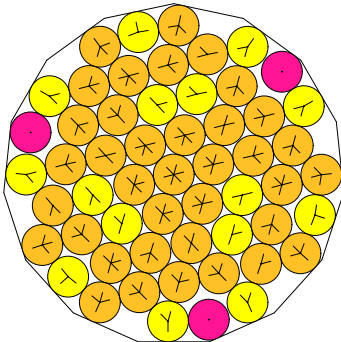
54 circles in a pentadecagon



radius = 0.120070139599 density = 0.801750243153
ratio = 8.328465373170 contacts = 97

N = 55

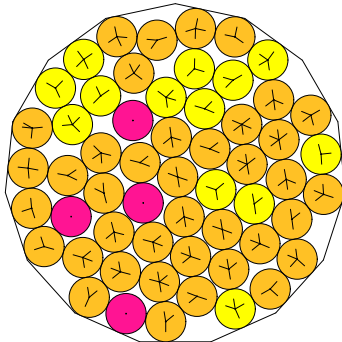
55 circles in a pentadecagon



radius = 0.119472121264 density = 0.808483476623
ratio = 8.370153550636 contacts = 108

N = 56

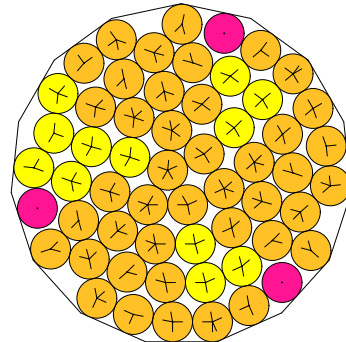
56 circles in a pentadecagon



radius = 0.117745060420 density = 0.799555718662
ratio = 8.492925278029 contacts = 105

N = 57

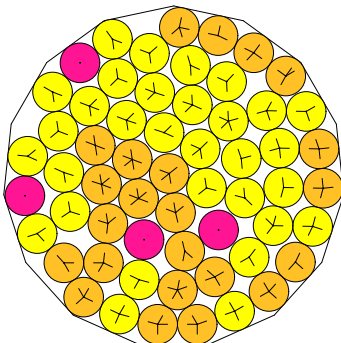
57 circles in a pentadecagon



radius = 0.116766332686 density = 0.800360129560
ratio = 8.564112420077 contacts = 114

N = 58

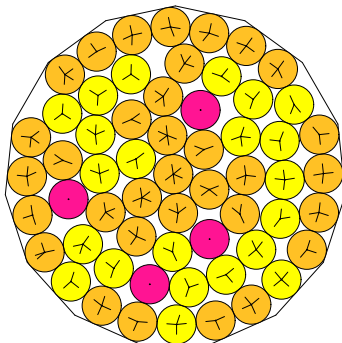
58 circles in a pentadecagon



radius = 0.115783042154 density = 0.800743193233
ratio = 8.636843370142 contacts = 109

N = 59

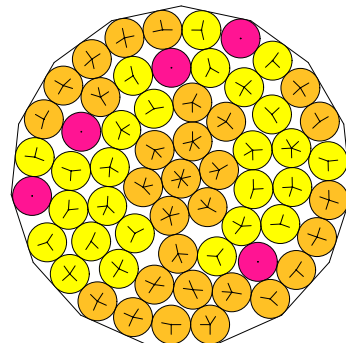
59 circles in a pentadecagon



radius = 0.114583936005 density = 0.799776660076
ratio = 8.727265828859 contacts = 113

N = 60

60 circles in a pentadecagon



radius = 0.113824066333 density = 0.800561596653
ratio = 8.78548273422 contacts = 112