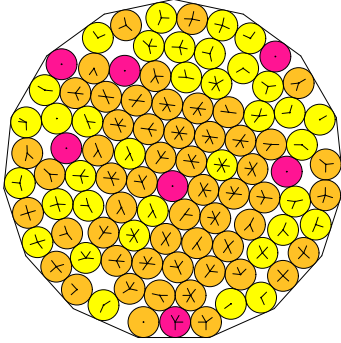


**N = 97**

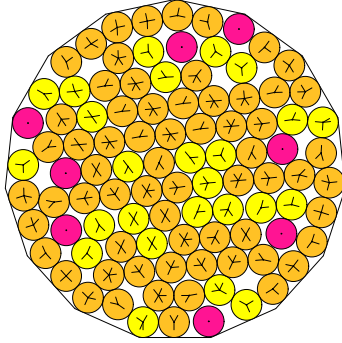
97 circles in a pentadecagon



radius = 0.090210453617 density = 0.812944274901  
 ratio = 11.085189794796 contacts = 183

**N = 98**

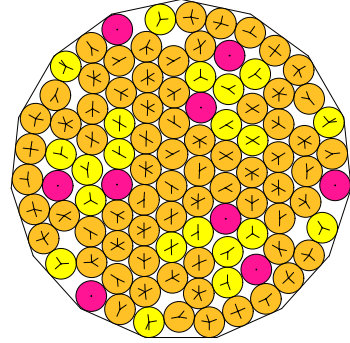
98 circles in a pentadecagon



radius = 0.089903567382 density = 0.815746529670  
 ratio = 11.123029142426 contacts = 181

**N = 99**

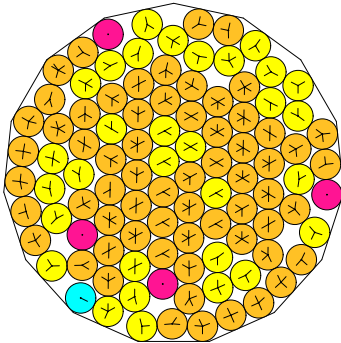
99 circles in a pentadecagon



radius = 0.089644850728 density = 0.819334421723  
 ratio = 11.155130404958 contacts = 183

**N = 100**

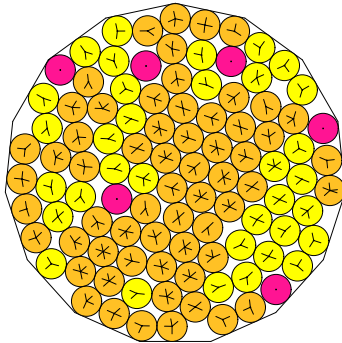
100 circles in a pentadecagon



radius = 0.088945046531 density = 0.814739632232  
 ratio = 11.242897035870 contacts = 192

**N = 101**

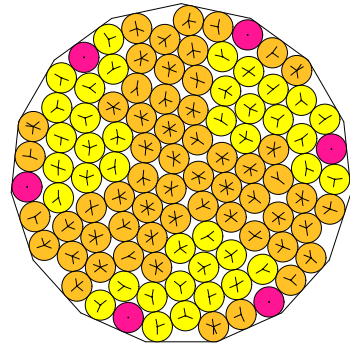
101 circles in a pentadecagon



radius = 0.088443034716 density = 0.813624382745  
 ratio = 11.306712082575 contacts = 192

**N = 102**

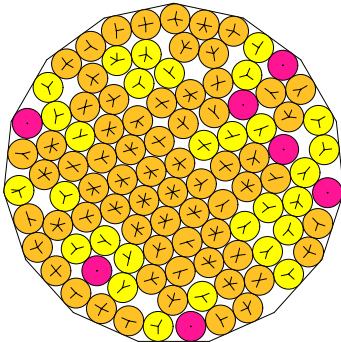
102 circles in a pentadecagon



radius = 0.088223897337 density = 0.817613322166  
 ratio = 11.334797975607 contacts = 201

**N = 103**

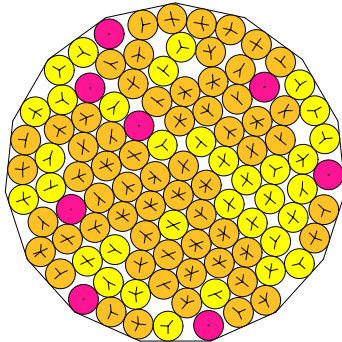
103 circles in a pentadecagon



radius = 0.087471283686 density = 0.814015947331  
 ratio = 11.432323362117 contacts = 197

**N = 104**

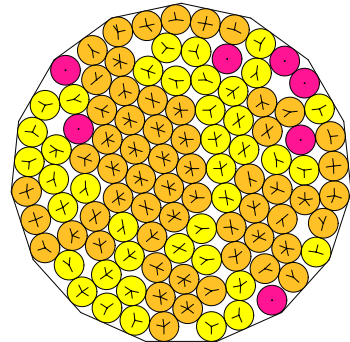
104 circles in a pentadecagon



radius = 0.087156185006 density = 0.813589008781  
 ratio = 11.473655024356 contacts = 194

**N = 105**

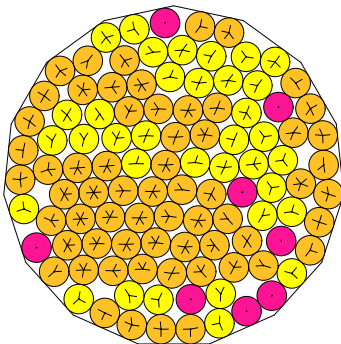
105 circles in a pentadecagon



radius = 0.086843708149 density = 0.815532601136  
 ratio = 11.514938978492 contacts = 200

**N = 106**

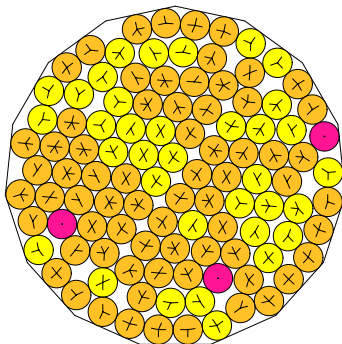
106 circles in a pentadecagon



radius = 0.086352689668 density = 0.814015947331  
 ratio = 11.580415200089 contacts = 202

**N = 107**

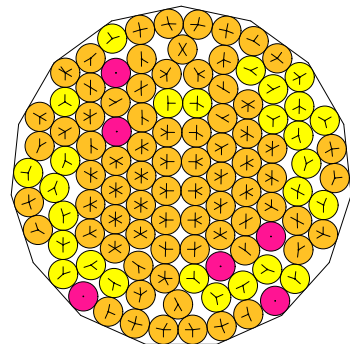
107 circles in a pentadecagon



radius = 0.085917814998 density = 0.813440019012  
 ratio = 11.639029693958 contacts = 209

**N = 108**

108 circles in a pentadecagon



radius = 0.085430088155 density = 0.811747152529  
 ratio = 11.705477795897 contacts = 214