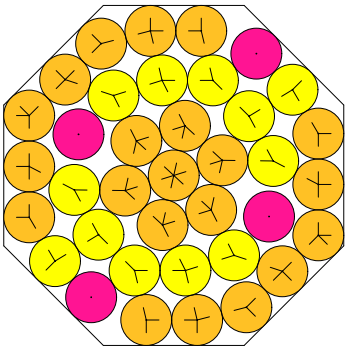
# N = 37

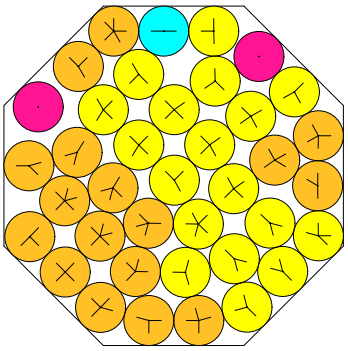
**37 circles in an octagon**



radius = 0.138229583693 density = 0.785251190287
ratio = 7.234341399874 contacts = 68

# N = 38

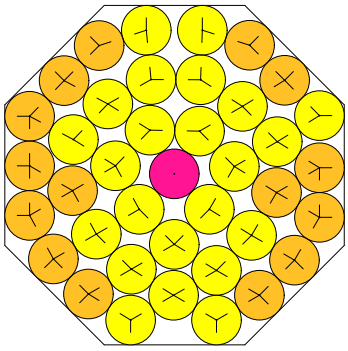
**38 circles in an octagon**



radius = 0.136097981333 density = 0.781793117866
ratio = 7.347647556585 contacts = 73

# N = 39

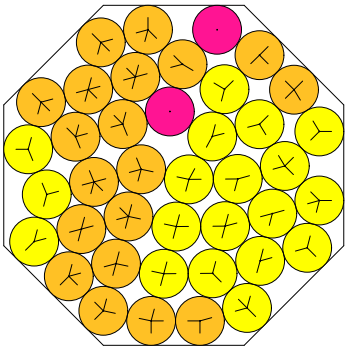
**39 circles in an octagon**



radius = 0.134961309874 density = 0.789020079500
ratio = 7.409530931024 contacts = 78

# N = 40

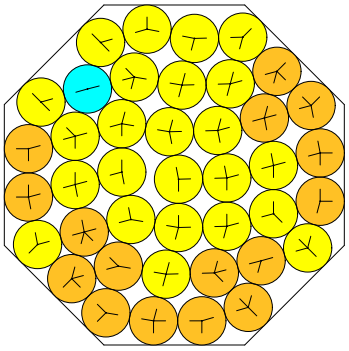
**40 circles in an octagon**



radius = 0.132682454149 density = 0.782153264267
ratio = 7.536791555577 contacts = 78

# N = 41

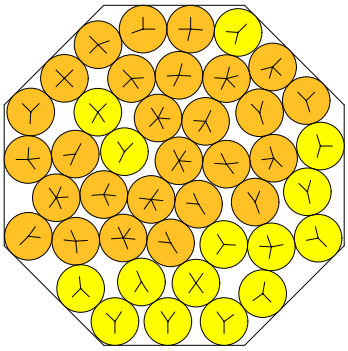
**41 circles in an octagon**



radius = 0.131274622862 density = 0.784784278851
ratio = 7.617618532785 contacts = 82

# N = 42

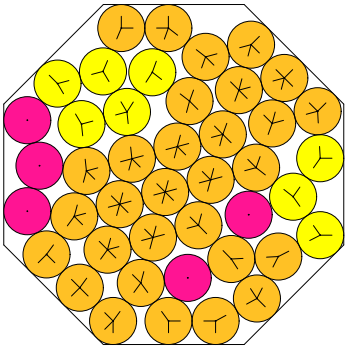
**42 circles in an octagon**



radius = 0.129318110933 density = 0.780140587971
ratio = 7.732868913580 contacts = 85

# N = 43

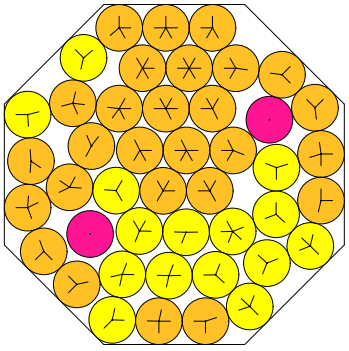
**43 circles in an octagon**



radius = 0.127890596942 density = 0.781179006956
ratio = 7.819183144919 contacts = 83

# N = 44

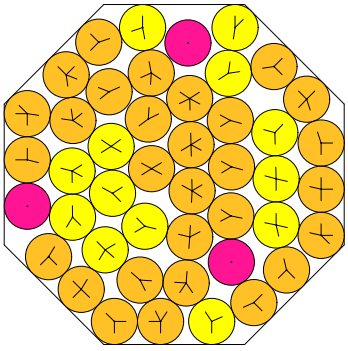
**44 circles in an octagon**



radius = 0.126725223499 density = 0.784844623208
ratio = 7.891088864445 contacts = 88

# N = 45

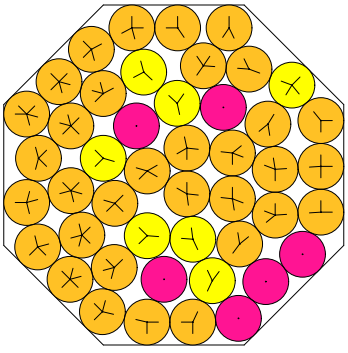
**45 circles in an octagon**



radius = 0.125455094344 density = 0.786672549018
ratio = 7.970979618107 contacts = 85

# N = 46

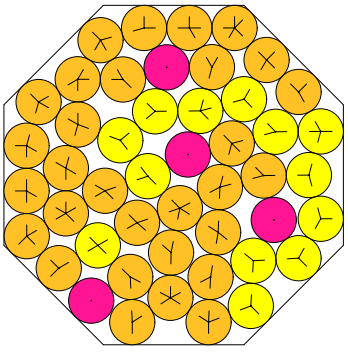
**46 circles in an octagon**



radius = 0.124405540951 density = 0.790755386432
ratio = 8.038227175025 contacts = 84

# N = 47

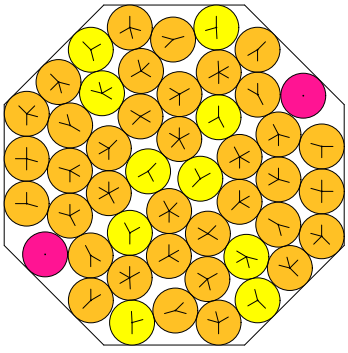
**47 circles in an octagon**



radius = 0.123164266115 density = 0.791903356905
ratio = 8.119238083754 contacts = 87

# N = 48

**48 circles in an octagon**



radius = 0.122028320701 density = 0.793902895812
ratio = 8.194818991685 contacts = 94