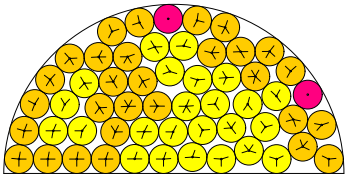
# N = 55

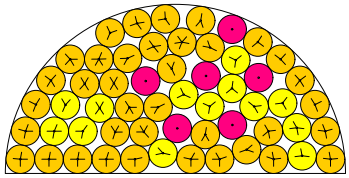
**55 circles in a semicircle**



radius = 0.085034616682 density = 0.795397463762
ratio = 11.759916596592 contacts = 107

# N = 56

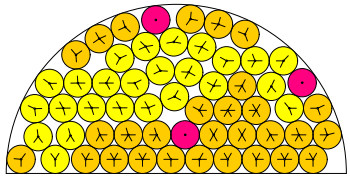
**56 circles in a semicircle**



radius = 0.084232218437 density = 0.794647461748
ratio = 11.871941859785 contacts = 101

# N = 57

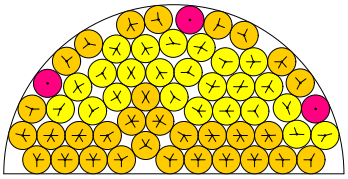
**57 circles in a semicircle**



radius = 0.083551186609 density = 0.795811289341
ratio = 11.968710925498 contacts = 113

# N = 58

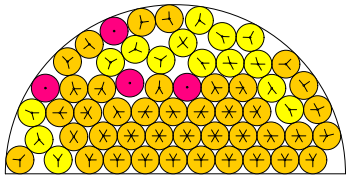
**58 circles in a semicircle**



radius = 0.082906284737 density = 0.797320437671
ratio = 12.061811757364 contacts = 117

# N = 59

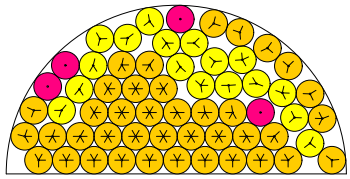
**59 circles in a semicircle**



radius = 0.082127709358 density = 0.795905356037
ratio = 12.176158422263 contacts = 125

# N = 60

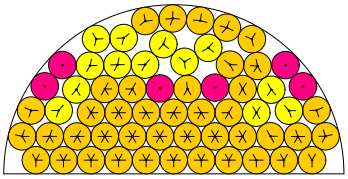
**60 circles in a semicircle**



radius = 0.081505849982 density = 0.797184429754
ratio = 12.269057990577 contacts = 129

# N = 61

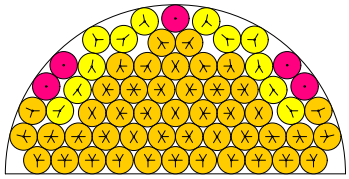
**61 circles in a semicircle**



radius = 0.080994720911 density = 0.800337667478
ratio = 12.346483681369 contacts = 124

# N = 62

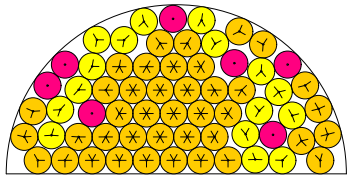
**62 circles in a semicircle**



radius = 0.080610377983 density = 0.805756096786
ratio = 12.405350589079 contacts = 129

# N = 63

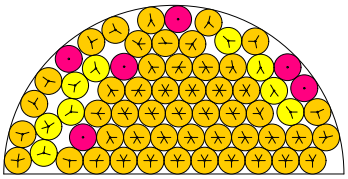
**63 circles in a semicircle**



radius = 0.079902784729 density = 0.804441330937
ratio = 12.515208367172 contacts = 128

# N = 64

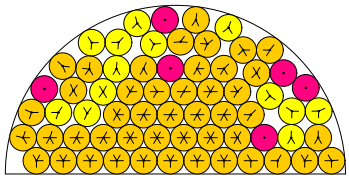
**64 circles in a semicircle**



radius = 0.079358884121 density = 0.806122558575
ratio = 12.600983633794 contacts = 132

# N = 65

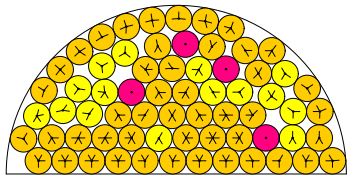
**65 circles in a semicircle**



radius = 0.078767398642 density = 0.806559401541
ratio = 12.695607792620 contacts = 131

# N = 66

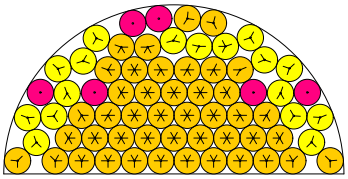
**66 circles in a semicircle**



radius = 0.078252927327 density = 0.808304723862
ratio = 12.779074651293 contacts = 132

# N = 67

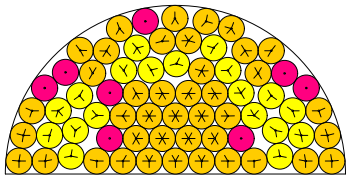
**67 circles in a semicircle**



radius = 0.077610460456 density = 0.807133398678
ratio = 12.884861062827 contacts = 146

# N = 68

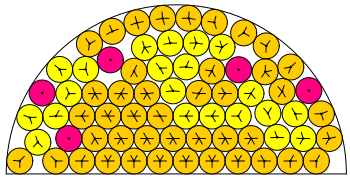
**68 circles in a semicircle**



radius = 0.077098474374 density = 0.808407766108
ratio = 12.970425266130 contacts = 129

# N = 69

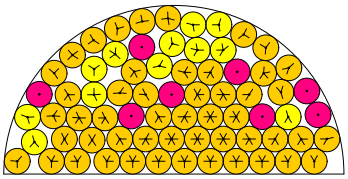
**69 circles in a semicircle**



radius = 0.076587056193 density = 0.809449650325
ratio = 13.057036654910 contacts = 137

# N = 70

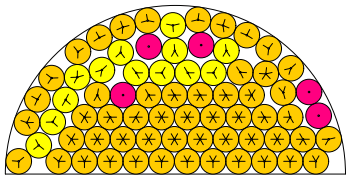
**70 circles in a semicircle**



radius = 0.076061046754 density = 0.809939596659
ratio = 13.147334183253 contacts = 136

# N = 71

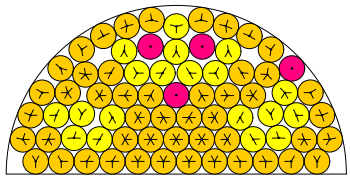
**71 circles in a semicircle**



radius = 0.075572173580 density = 0.810983785592
ratio = 13.232383728335 contacts = 154

# N = 72

**72 circles in a semicircle**



radius = 0.075107368270 density = 0.812320814646
ratio = 13.314272927414 contacts = 144