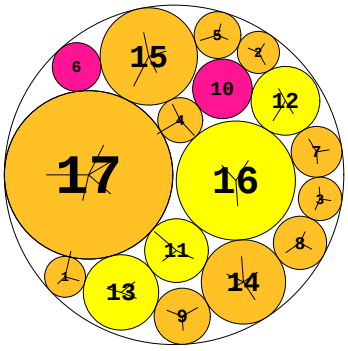
N = 17

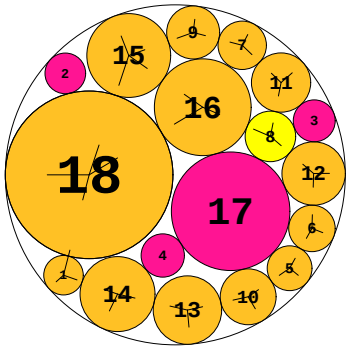
17 circles in a circle



radius = 0.496214433802 density = 0.846916767441
ratio = 2.015257783490 contacts = 30

N = 18

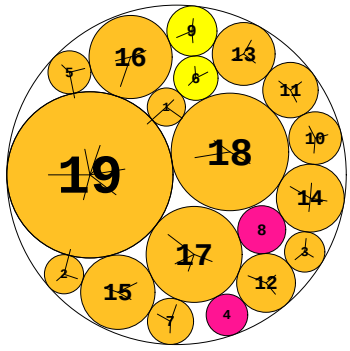
18 circles in a circle



radius = 0.493060522668 density = 0.849691107901
ratio = 2.028148582224 contacts = 28

N = 19

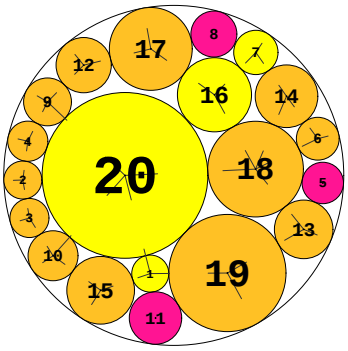
19 circles in a circle



radius = 0.489716608582 density = 0.850827285609
ratio = 2.041997315336 contacts = 34

N = 20

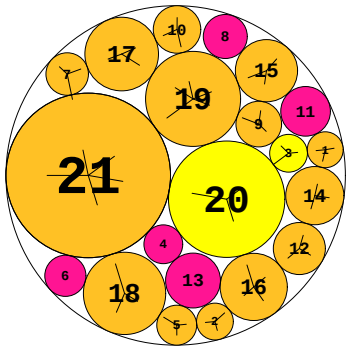
20 circles in a circle



radius = 0.487462145681 density = 0.854892535313
ratio = 2.051441345468 contacts = 34

N = 21

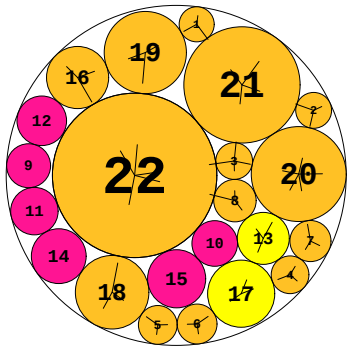
21 circles in a circle



radius = 0.484888190971 density = 0.857084190404
ratio = 2.062331107707 contacts = 32

N = 22

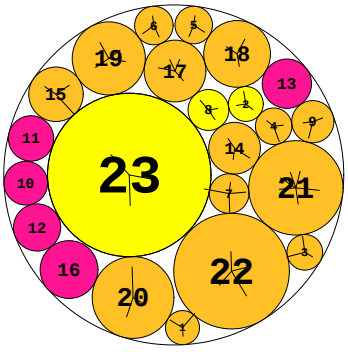
22 circles in a circle



radius = 0.483567606273 density = 0.863051022602
ratio = 2.067963170045 contacts = 32

N = 23

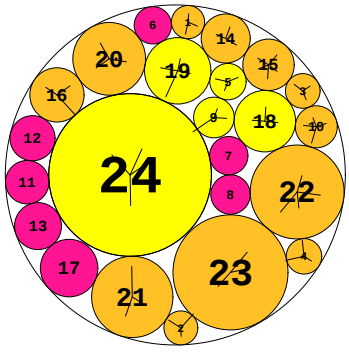
23 circles in a circle



radius = 0.480821851142 density = 0.863329556916
ratio = 2.079772368133 contacts = 36

N = 24

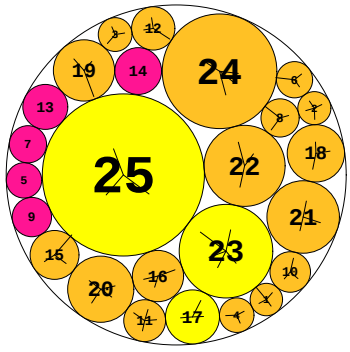
24 circles in a circle



radius = 0.478381196872 density = 0.864122627550
ratio = 2.090383164176 contacts = 34

N = 25

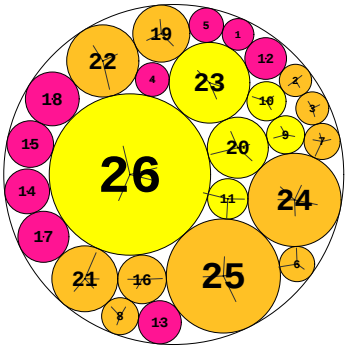
25 circles in a circle



radius = 0.476751718388 density = 0.867337533092
ratio = 2.097527835623 contacts = 40

N = 26

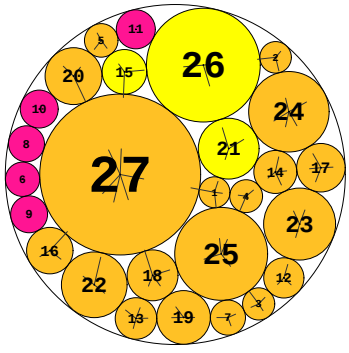
26 circles in a circle



radius = 0.474603330816 density = 0.868201571904
ratio = 2.107022717856 contacts = 34

N = 27

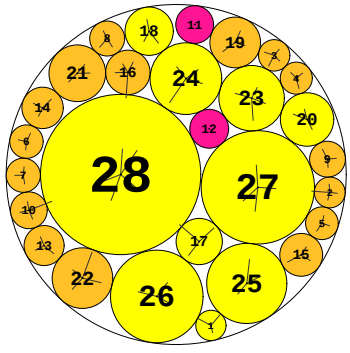
27 circles in a circle



radius = 0.473222670592 density = 0.871451642173
ratio = 2.113170103937 contacts = 44

N = 28

28 circles in a circle



radius = 0.471370007341 density = 0.872576891457
ratio = 2.121475665457 contacts = 52