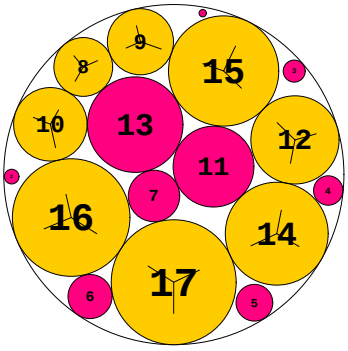
N = 17

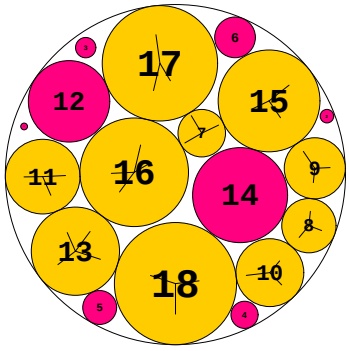
17 circles in a circle



radius = 0.367239298376 density = 0.832987866973
ratio = 46.291342117155 contacts = 16

N = 18

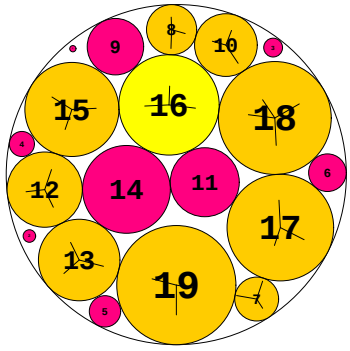
18 circles in a circle



radius = 0.359139760580 density = 0.839573203594
ratio = 50.119762623458 contacts = 20

N = 19

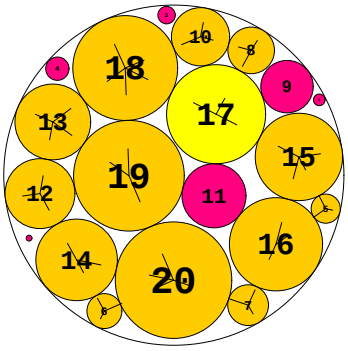
19 circles in a circle



radius = 0.350293089177 density = 0.839562225382
ratio = 54.240293591412 contacts = 20

N = 20

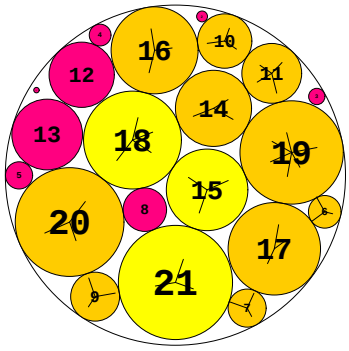
20 circles in a circle



radius = 0.342462425681 density = 0.841487680797
ratio = 58.400567479045 contacts = 28

N = 21

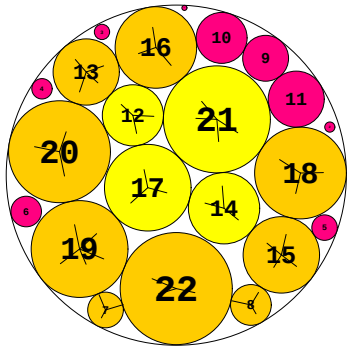
21 circles in a circle



radius = 0.335683774638 density = 0.846021288424
ratio = 62.558877093877 contacts = 26

N = 22

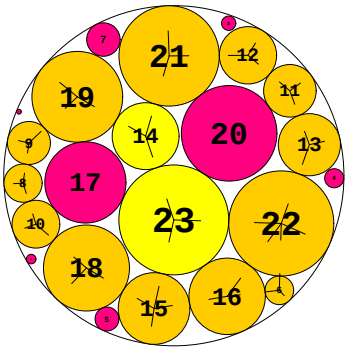
22 circles in a circle



radius = 0.329537232966 density = 0.851481859755
ratio = 66.760286241424 contacts = 26

N = 23

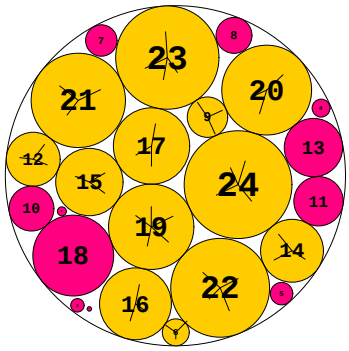
23 circles in a circle



radius = 0.323036150563 density = 0.852967072144
ratio = 71.199461607892 contacts = 30

N = 24

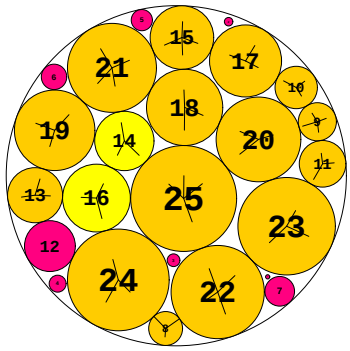
24 circles in a circle



radius = 0.316835269443 density = 0.853966112880
ratio = 75.749142581859 contacts = 26

N = 25

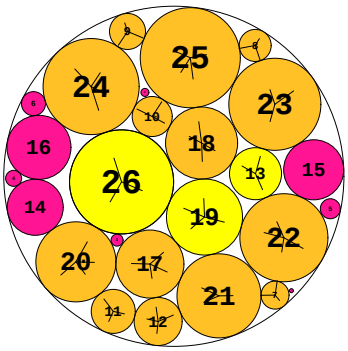
25 circles in a circle



radius = 0.311387317984 density = 0.857144626324
ratio = 80.285864439973 contacts = 34

N = 26

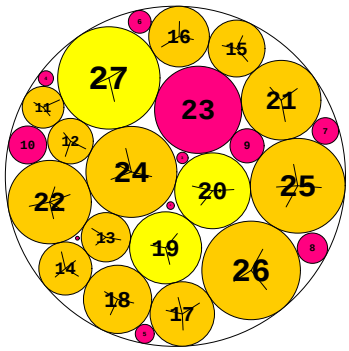
26 circles in a circle



radius = 0.305960855061 density = 0.858710488148
ratio = 84.978191065732 contacts = 34

N = 27

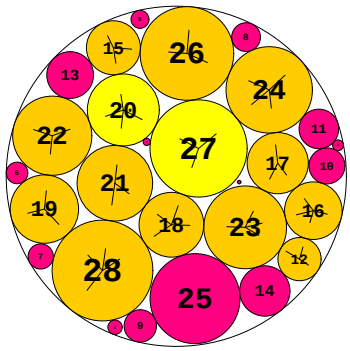
27 circles in a circle



radius = 0.300832427789 density = 0.860310064187
ratio = 89.750962682005 contacts = 32

N = 28

28 circles in a circle



radius = 0.296215183171 density = 0.863332723968
ratio = 94.525877101517 contacts = 28