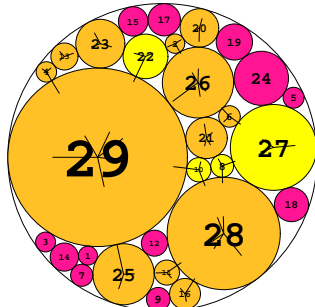


N = 29

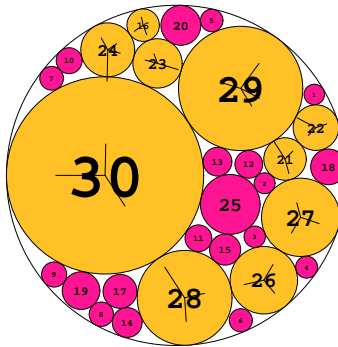
29 circles in a circle



radius = 0.886575868843 density = 0.886504836731 contacts = 34  
 ratio = 1.725427715793

N = 30

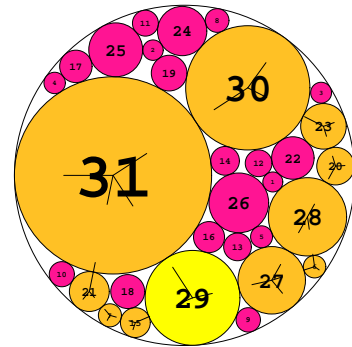
30 circles in a circle



radius = 0.579696449422 density = 0.887426236750 contacts = 20  
 ratio = 1.725040753650

N = 31

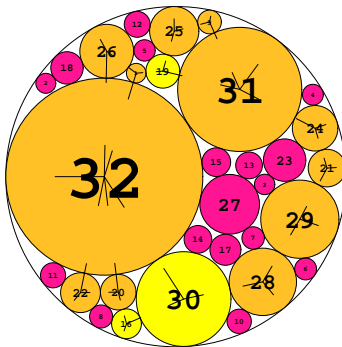
31 circles in a circle



radius = 0.579583815855 density = 0.890530873937 contacts = 22  
 ratio = 1.725375989861

N = 32

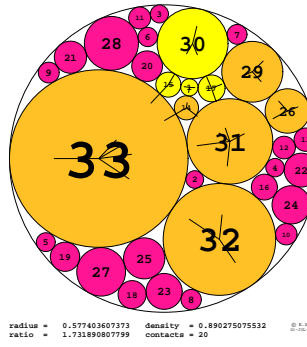
32 circles in a circle



radius = 0.579010607161 density = 0.892069600447 contacts = 30  
 ratio = 1.727064673490

N = 33

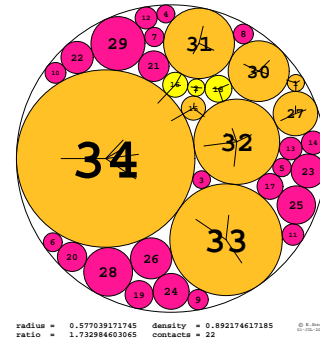
33 circles in a circle



radius = 0.577403607373 density = 0.890275075532 contacts = 20  
 ratio = 1.731890807799

N = 34

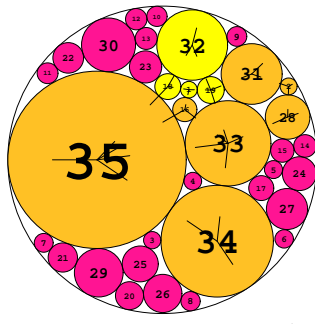
34 circles in a circle



radius = 0.577039171745 density = 0.892174617385 contacts = 22  
 ratio = 1.732984603065

N = 35

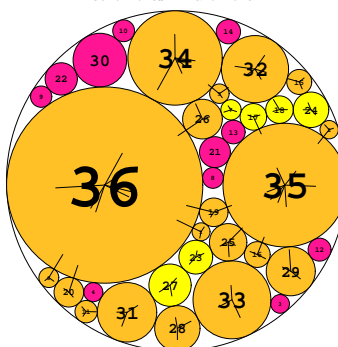
35 circles in a circle



radius = 0.57673758304 density = 0.894253598358 contacts = 22  
 ratio = 1.733788080992

N = 36

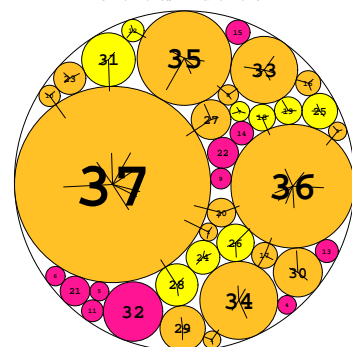
36 circles in a circle



radius = 0.576720284514 density = 0.896892283922 contacts = 50  
 ratio = 1.733942525445

N = 37

37 circles in a circle



radius = 0.576588508161 density = 0.899178727793 contacts = 52  
 ratio = 1.734339109861