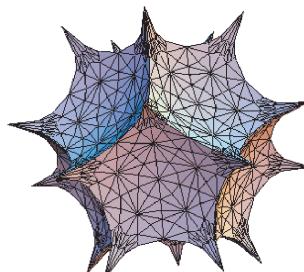
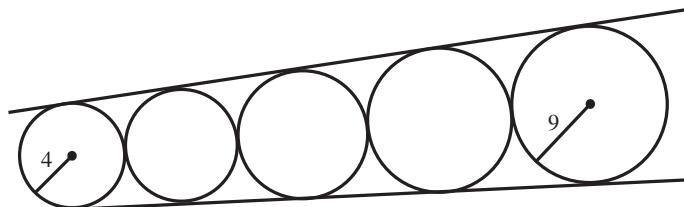


# Willamette Math Problem of the Week



October 15 2007  
Circular Reasoning



What is the radius of the center circle?

Submit all solutions before the appearance of the next problem to Josh Laison in person, by e-mail ([jlaison@willamette.edu](mailto:jlaison@willamette.edu)), or by cup-and-string phone. The first correct solution gets a prize; all correct solutions get fame and glory. Preference for the prize goes to problem-solvers who haven't won one yet.

## Solution to *Breaking Chocolate*:

Congratulations to **Kyle Evans**, who solved the problem first and won an "At Your Service" Bell, and to **Eddie Mertz**, who also submitted a correct solution.

Each break increases the number of pieces of chocolate by 1. The chocolate bar starts in one piece and ends in  $mn$  pieces. Therefore it always takes  $mn - 1$  breaks.



Past problems of the week, solutions, and solvers can be found at  
<http://www.willamette.edu/~jlaison/problem.html>

