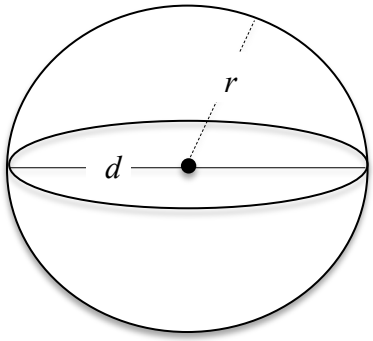
Volume of a Sphere:

$V = 4/3\pi r^3$

Diameter (d) of a Ping Pong Ball is $40mm^3$

$d/2$ = radius (r) → 40mm/2 = 20mm r

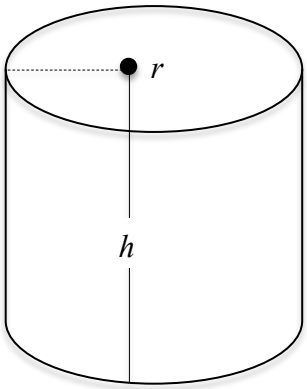
Plug in volume formula → $V = 4/3\pi(20)^3$ → $33,510.24mm^3$ ($2.045in^3$)



Volume of a Cylinder:

$V = \pi r^2 h$

$\pi*10^2*225 = 70,685ft^3$



Packing distance of .56 needs to be applied to account for the gaps between the Ping Pong balls

$70,685ft^3/2in^3 = 61,072,424ft^3*.56$ = **34,200,557 Ping Pong Balls**