Ping Pong Balls On A School Bus

First find out the dimensions of a school bus.
Height: 9.5 ft
Width: 8 ft
Length: 40 ft

Now we can find the volume of the bus.
9.5ft * 8ft * 40ft = **3040** cubic ft

Now the volume of a ping pong ball
Volume of a sphere is $(4/3)*pi*r3$
Diameter of a ping pong ball is 40mm
Radius is half that at 20mm
So (4/3) * 3.14 * 20^3 = 33493 mm cubed
Convert that to inches
33493 cubic mm / 16387
2.044 cubic inches

Next step is to convert the volume of the bus to cubic inches
3040 cubic ft * 1728 = **5253120** cubic inches

Now divide the volume of the bus by the volume of the ping pong ball
5253120/2.044 = **2570019.57**
You can't have .57 of a ping pong ball so round down to **2,570,019** ping pong balls.

This number is in a bus with no seats.
So figure each seat part is 36 inches across 12 inches back and 6 inches thick.
36 * 12 * 6 = 2592 cubic inches for each part. As there is a seat and a back double that to 5184 cubic inches.

There about 30 seats on a school bus so 155520 cubic inches of seat.
Subtract that from the overall volume of the bus and get: 5097600 cubic inches
Again divide that by the volume of the ping pong ball
5097600 / 2.044 = **2,493,933** ping pong balls

So, after all that giving and taking some space on variables about **2.5 million ping pong balls will fill the school bus.**