

38. Although we can look up the distance from Cleveland to Los Angeles, we can just as well (for an order of magnitude calculation) assume it's some relatively small fraction of the circumference of Earth – which suggests that (again, for an order of magnitude calculation) we can estimate the distance to be roughly r , where $r \approx 6 \times 10^6$ m is the radius of Earth. If we take each toilet paper sheet to be roughly 10 cm (0.1 m) then the number of sheets needed is roughly $6 \times 10^6 / 0.1 = 6 \times 10^7 \approx 10^8$.