29 Radon-222 ($^{222}_{86}Ra$) is a radioactive gas that decays randomly with a decay constant of 7.55×10^{-3} hour^{-1}.

The activity of radon gas in a sample of 4.80×10^{-3} m^3 of air taken from a building is 0.600 Bq.

Find the number of radon atoms in 1.00 m^3 of the air.

A 125

B 1.66×10^4

C 2.86×10^5

D 5.96×10^7