30 Nuclide X decays to stable nuclide Y with a half-life of T years.

Geologists discovered that nuclide Y found in a particular rock sample all came from nuclide X which was present when the rock was formed.

The rock is thought to be $3T$ years old.

What is the expected ratio $\dfrac{\text{number of atoms of X}}{\text{number of atoms of Y}}$ for this rock?

A $\quad \dfrac{1}{2}$ 　　　　　　B $\quad \dfrac{1}{3}$ 　　　　　　C $\quad \dfrac{1}{6}$

　　　　　D $\quad \dfrac{1}{7}$