

14.) 0,01%  $^{40}\text{K}$   $T_{1/2} = 1,2 \cdot 10^9$  év ( $^{39}\text{K}$  és  $^{41}\text{K}$  nem radioaktív.)

$$n = 4 \text{ mol} \quad A = ?$$

$$N_A = 6 \cdot 10^{23}$$

0,01%  $\rightarrow \frac{1}{10000}$  része az atomoknak

$$A = N\lambda$$

$$N = n \cdot N_A$$

$$\lambda = \frac{\ln 2}{T_{1/2}}$$

$$N_{40} = \frac{N}{10000} = \frac{n N_A}{10000} = \dots$$

$$\lambda = \frac{\ln 2}{T_{1/2}} = \dots$$

$$A = N_{40} \cdot \lambda = \dots$$