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Step 1. Convert days to seconds.

1 day = (24 hours)(3600 seconds/hour)

= 86400 seconds Step 2. use the definition of half life.

> $k = ln(2)/\tau^{1/2} = 0.697/328,320 s$ = 2.12 x 10<sup>-6</sup> s<sup>-1</sup>