7





***ln(N) = kt + c***

***Subs t = 0, N = 100 % so ln(100) = c***

***So ln N = kt***

 ***100***

***Subs t = 8, N = 50 % so ln 50 = 8k***

 ***100***



***ln N = -0.0866t***

 ***100***

***If 99% has decayed, then amount LEFT is N = 1 %***

***So subs N = 1 : ln 1 = -0.0866t***

 ***100***

***t = 53.2 days***

7



7

