



 $log_2(4m)^2 = log_2n + log_2p^2$  **Step 2** Combine LS to single log:  $log_2\sqrt{4m} = log_2(np^2)$   $\Rightarrow 2\sqrt{m} = np^2 \Rightarrow \sqrt{m} = \frac{np^2}{2}$ 

 $(\sqrt{m})^2 = \left(\frac{np^2}{2}\right)^2 \quad \Rightarrow \quad m = \frac{n^2p^4}{4}$  ANSWER: **A** 



## Written #2



Then convert to exp. form to solve:

 $t = log_{0.9172}(0.5)$ 

 $t \approx 8.02 \text{ days}$ 

www.rtdmath.com  $A = 100 \left(\frac{1}{2}\right)^{\overline{8.02}}$ 

Alternate equation using half-life of 8.02 days

And with that - you're done!



(Or try another practice exam)