

# Half-Life Problem #1

- Suppose you have a sample of plutonium-238, which has a half-life of 87.74 years. If only 3.125% of the sample remains radioactive, how old is the sample?

$$\textcircled{1} 100\% \xrightarrow{1} 50\% \xrightarrow{2} 25\% \xrightarrow{3} 12.5\% \xrightarrow{4} 6.25\% \xrightarrow{5} 3.125\%$$

$$\textcircled{2} 5 \text{ half-lives} \times \frac{87.74 \text{ y}}{1 \text{ half-life}}$$

# Half Life Practice Problems With Answers

**Daniela Niemeyer**



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rules and principles ratios proportions and conversion factors fractions decimals and percentages Practice problems are scattered throughout

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