

HALF-LIFE PROBLEMS

Name _____ Block _____

1. An isotope of cesium (cesium-137) has a half-life of 30 years. If 1.0 g of cesium-137 disintegrates over a period of 90 years, how many g of cesium-137 would remain?

$$\frac{90}{30} = 3 \text{ } \frac{1}{2}$$

$\begin{pmatrix} 1.5 \\ 0.5 \\ 2.5 \\ 1.25 \end{pmatrix} g$

2. Actinium-226 has a half-life of 29 hours. If 100 mg of actinium-226 disintegrates over a period of 58 hours, how many mg of actinium-226 will remain?

58-2-44

100
50
25

3. Sodium-25 was to be used in an experiment, but it took 3.0 minutes to get the sodium from the reactor to the laboratory. If 5.0 mg of sodium-25 was removed from the reactor, how many mg of sodium-25 were placed in the reaction vessel 3.0 minutes later if the half-life of sodium-25 is 60 seconds?

$$\frac{3.0}{1.0} = 3 \text{ k.i.}$$

$\left\{ \begin{array}{l} 5 \text{ mg} \\ 2.5 \\ 1.25 \\ 0.625 \text{ mg} \end{array} \right.$

4. The half-life of isotope X is 2.0 years. How many years would it take for a 4.0 mg sample of X to decay and have only 0.50 mg of it remain?

$$3 \times 2.0 \text{ yr} = 6 \text{ yr}$$

4.00
2.00
1.00
5.00 } 3 h-L

5. Selenium-83 has a half-life of 25.0 minutes. How many minutes would it take for a 10.0 mg sample to decay and have only 1.25 mg of it remain?

$$3 \times 25 = 75 \text{ mi}$$

1.25 3 h.L

6. The half-life of Po-218 is three minutes. How much of a 2.0 gram sample remains after 15 minutes? Suppose you wanted to buy some of this isotope, and it required half an hour for it reach you. How much should you order if you need to use 0.10 gram of this material?

5. chd

2.3
1.5
2.2
1.25
1.0625

30m, 10 h.f.

10 k.f

$.1 \times 2 \times 2 \times 2 \times 2 = 2 \times 2 \times 2 = 2 \times 2 \times 2$

$102.4g$

Physical Science If8767 Half Life

RJ Shavelson



Physical Science If8767 Half Life:

Half-life Lifeliqe,2019 This lesson plan covers the half lives of radioactive nuclei The less stable the radioactive nuclei the faster the decay Systematics of Evaluated Double-Beta Decay Half-Life Times ,2013 **Half-life and Decay Scheme of U235** National Research Council of Canada. Division of Building Research,E. Wurger,K. P. Meyer,1959

Physical Science If8767 Half Life Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Physical Science If8767 Half Life**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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