

HALF-LIFE PROBLEMS

Name _____	Block _____
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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

$\cdot 1 \times 2 \times 2 \times 2 \times 2 = 2 \times 2 \times 2 = 2 \times 2 \times 2$

102.4 g

Physical Science If8767 Half Life Calculations Answers

Ying-Ying Zheng



Physical Science If8767 Half Life Calculations Answers:

Decoding **Physical Science If8767 Half Life Calculations Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Physical Science If8767 Half Life Calculations Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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KIPLING Rikki-tikki-tavi RUDYARD KIPLING. Read each of the following questions. Answer each question in a complete sentence. 1. What kind of animal is Rikki-tikki-tavi? Analyzing Character Confrontations in "Rikki-Tikki-Tavi" Students will analyze the confrontations that drive the story's plot, noting what happens and who is involved, how Rikki's character is developed through each ... Unit 1 Part 2/Week 8 Title: Rikki-tikki-tavi Suggested Time Students complete an evidence chart as a pre-writing activity. Teachers should ... Answer: Tasks and answers available in the anthology on page 137. • After ... Guide de survie pour les enfants vivant avec un TDAH Un livre sympathique pour enfant, plein d'astuces et de trucs pour mieux s'organiser à l'école, à la maison et avec les amis quand on vit avec un TDAH. Guide de survie pour les enfants vivants avec un TDAH Ce livre a été écrit spécialement pour toi - mais tu peux le lire avec tes parents ou avec un adulte en qui tu as confiance. Parle de ce que tu vis, expérimente ... Guide de survie pour les enfants vivant avec un TDAH Mar 20, 2012 — Il ne va pas résoudre tous tes problèmes, mais il va certainement te donner plusieurs trucs pour mieux t'organiser à l'école, à la maison et ... Guide de survie pour les enfants vivant avec un TDAH Tu y trouveras plusieurs activités à réaliser afin de découvrir tes forces et de mieux actualiser ton potentiel.. ... Biographie de l'auteur. John F. Taylor, Ph. Guide de survie pour les enfants vivant avec un TDAH Ce petit guide plein d'idées va permettre aux enfants de mieux comprendre le TDAH, afin qu'ils s'approprient des stratégies pour développer leurs pleins ... Guide de survie pour les enfants vivant avec un TDAH Feb 24, 2014 — Annick Vincent, médecin spécialiste en TDAH, auteure et maman. John F. Taylor, Ph. D. Un guide pratique, sympathique et amusant ! Guide de survie pour les enfants vivant avec un TDAH - Benjo Guide de survie pour les enfants vivant avec un TDAH. Editions Midi Trente. SKU: 0978292382723. Guide de survie pour les enfants vivant avec un TDAH. Guide de survie pour les enfants vivant avec un TDAH Guide de survie pour les enfants vivant avec un TDAH · Lecture en tandem · Catalogue de bibliothèque. Pour aller plus loin : Faire une ... Guide de survie pour les enfants vivants avec un... - John F ... Guide de survie pour les enfants vivants avec un TDAH de Plongez-vous dans le livre John F. Taylor au format Grand Format. Ajoutez-le à votre liste de ...