

# Half Life Calculations Practice

2 pages + 2-page Answer Key

## HALF-LIFE CALCULATIONS

1. Radioiodine has a half-life of 8 days. If you start with 40 grams of radioiodine, how much will remain after 16 days?

2. If the half-life of Iodine-131 is 8 days, how much of a 100 gram sample will remain after 16 days?

3. If the half-life of Iodine-131 is 8 days, how long will it take for 100 grams of Iodine-131 to decay to 1/8th of the original amount?

4. The half-life of Uranium-238 is 4.5 billion years. How long will it take for 100 grams of Uranium-238 to decay to 1/8th of the original amount?

5. Uranium-238 has a half-life of 4.5 billion years. If you start with 40 grams, how much will remain after 16 billion years?

6. If the half-life of Uranium-238 is 4.5 billion years, how long will it take for 100 grams of Uranium-238 to decay to 1/8th of the original amount?

## HALF-LIFE CALCULATIONS

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$100 \rightarrow 50 \rightarrow 25 \rightarrow 12.5 \rightarrow 6.25 \rightarrow 3.125$ , so 4 halves or 4 half-lives is a billion years and 4 billion years.

4. The half-life of Uranium-238 is 4.5 billion years. How long will it take for 100 grams of Uranium-238 to decay to 1/8th of the original amount?

$100 \rightarrow 50 \rightarrow 25 \rightarrow 12.5 \rightarrow 6.25 \rightarrow 3.125$ , so 4 halves or 4 half-lives is 4 billion years and 4 billion years.

5. Uranium-238 has a half-life of 4.5 billion years. If you start with 40 grams, how much will remain after 16 billion years?

$40 \rightarrow 20 \rightarrow 10 \rightarrow 5 \rightarrow 2.5 \rightarrow 1.25$ , so 4 halves or 4 half-lives is 4 billion years and 4 billion years.

6. If the half-life of Uranium-238 is 4.5 billion years, how long will it take for 100 grams of Uranium-238 to decay to 1/8th of the original amount?

$100 \rightarrow 50 \rightarrow 25 \rightarrow 12.5 \rightarrow 6.25 \rightarrow 3.125$ , so 4 halves or 4 half-lives is 4 billion years and 4 billion years.

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# Physical Science Half Life Calculations Instructional Fair Inc

**DJ Losen**



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## Decoding **Physical Science Half Life Calculations Instructional Fair Inc**: 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 ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Physical Science Half Life Calculations Instructional Fair Inc**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect 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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