

Radioactive Isotopes Half-life MCQ Worksheet

- When a radioactive isotope decays over time, its half-life
 - Decreases
 - Increases
 - Stays the same
- As the temperature of a radioactive isotope decreases, its half-life
 - Decreases
 - Increases
 - Stays the same
- A sample of radioactive isotope that initially had a weight of 80 milligrams. It decays to 5 milligrams after 32 days. What is its half-life?
 - 8 days
 - 12 days
 - 4 days
- The half-life of iodine-131 is 8.07 days. How much of a sample of iodine-131 is left after 24.21 days?
 - $\frac{1}{2}$
 - $\frac{1}{3}$
 - $\frac{1}{8}$
- What is the ratio of uranium-238 to lead-206 in a mineral used to determine?
 - Age
 - Density
 - Solubility
- What is the isotope carbon-14 used for?
 - Controlling fission reactions
 - Determining the age of the sample
 - controlling speeds of neutrons
- An isotope has a half-life of 2.5 minutes. What percentage of the isotope is left after 10 minutes?
 - 50 %
 - 3.125 %
 - 6.25 %
- How many milligrams of tritium will remain after 49.2 years if the starting amount is 32 mg? The half-life of tritium is 12.3 years.
 - Age
 - Density
 - Solubility

Half Life Of Radioactive Isotopes Worksheet Answers

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**John W. Jones, U.S. Atomic Energy
Commission**



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Science Spectrum Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03 Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **A Table of Radioactive Isotopes Arranged According to Half-lives** John W. Jones, U.S. Atomic Energy Commission, 1947 A complete table of radioactive isotopes excluding alpha emitters has been prepared and arranged in the order of increasing half life *Investigation of Methods for Measuring the Half-life of Radioactive Isotopes* Helen Thompson, 1949 *A list of radioactive isotopes in ascending order of half-life* R. J. Bullock, N. R. Large, 1968

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