

# Radioactive Isotopes

1. Calculate the half-life of a radioactive isotope if 100 g decays to 50 g in 1 hour.
2. A sample of a radioactive isotope has an initial activity of 80,000 becquerels. If the half-life of the isotope is 10 days, calculate its activity after 30 days.
3. A sample of a radioactive isotope contains 100 g of radioactive material. Calculate its mass after 10 half-lives.
4. A sample of a radioactive isotope has an activity of 10,000 becquerels. If the half-life of the isotope is 2 days, calculate its activity after 5 days.
5. If a sample of a radioactive isotope contains 1,000 g of radioactive material, how many grams will remain after 5 half-lives?
6. A sample of a radioactive isotope has an activity of 20,000 becquerels. If the half-life of the isotope is 5 days, calculate its activity after 10 days.
7. If a sample of a radioactive isotope contains 500 g of radioactive material, how many grams will remain after 3 half-lives?
8. A sample of a radioactive isotope has an activity of 60,000 becquerels. If the half-life of the isotope is 8 days, calculate its activity after 16 days.
9. A sample of a radioactive isotope has an initial activity of 100,000 becquerels. If the half-life of the isotope is 7 days, calculate its activity after 14 days.
10. If a sample of a radioactive isotope contains 200 g of radioactive material, how many grams will remain after 4 half-lives?

# Half Life Of Radioactive Isotopes Worksheet Page 35

## Answers

**Holt Rinehart & Winston, Holt,  
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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

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