

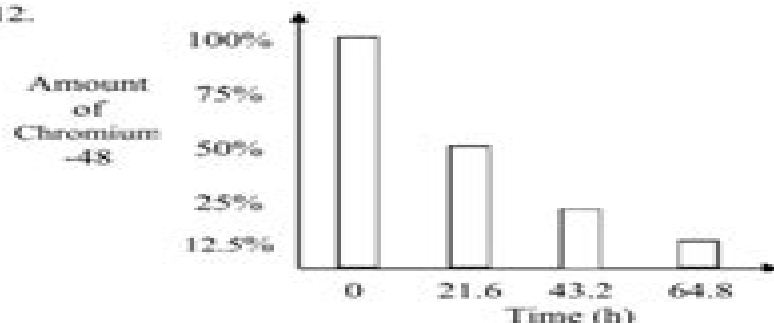
HALF-LIFE WORKSHEET

Use the Reference Table to the right to assist you in answering questions 1-3, 5 and 11.

$\frac{1}{2}$ life:
As-81 = 33 seconds
Au-198 = 2.69 days
C-14 = 5730 years

1. How long does it take a 100.00 g sample of As-81 to decay to 12.5 g?
2. How long does it take a 180 g sample of C-14 to decay to $\frac{1}{4}$ its original mass?
3. What percent of a sample of As-81 remains un-decayed after 66 seconds?
4. What is the half-life of a radioactive isotope if a 500.0 g sample decays to 62.5 g in 39.3 hours?
5. How old is a bone if it presently contains 0.3125 g of C-14, but it was estimated to have originally contained 80.000 g of C-14?
6. What is the half-life of a 100.0 g sample of nitrogen-16 that decays to 12.5 g of nitrogen-16 in 21.6 s?
7. All isotopes of technetium are radioactive, but they have widely varying half-lives. If an 800.0 g sample of technetium-99 decays to 50.0 g of technetium-99 in 852,000 yr, what is its half-life?
8. Thallium-208 has a half-life of 3.053 min. How long will it take for 120.0 g to decay to 7.50 g?
9. If the half-life of iodine-131 is 8.10 days, how long will it take a 50.00 g sample to decay to 6.25 g?
10. Potassium-42 has a half-life of 12.4 hours. How much of an 848 g sample will be left after 62.0 h?
11. How much of a 144 g sample of carbon-14 will remain after 17,190 yr?

12.



Use the bar graph to the left to answer a-c.

- a. How long is a half-life for chromium-48?
 - b. If only 25% of the chromium-48 remains, how old is the material containing the chromium-48?
 - c. If a sample originally had 120 atoms of chromium-48, how many atoms will remain after 64.8 hours?
13. If the half-life of uranium-235 is 7.04×10^8 yr and 12.5 g of uranium-235 remain after 28.16×10^8 yr, how much of the radioactive isotope was in the original sample?
 14. A 208 g sample of sodium-24 decays to 13.0 g of sodium-24 within 60.0 h. What is the half-life of this radioactive isotope?

Half Life Math Skills Answers

G Psacharopoulos



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