

## Half-Life

For example, suppose we had 20,000 atoms of a radioactive substance. If the half-life is 1 hour, how many atoms of that substance would be left ....

## Half-Life Practice

1. What is the percentage of radioactive nuclei left after 3 half-lives pass?

Half-Life Practice
3. The half-life of $R n-222$ is 3.823 day. If the original mass of a sample of this isotope is 0.20 g , how much of it remains after 7.646 days?

## Half-Life Practice

4. Thallium-208 has a half-life of 3.053 min . How long will it take for 120.0 g to decay to 7.5 g ?

## Half-Life Practice

5. Polonium-214 has a relatively short half-life of 164 seconds. How many seconds would it take for 8.0 g of this isotope to decay to 0.25 g ?


What is the half life of the Californium252 isotope?


