

## Radioactivity and Half-Lives Review Worksheet

1. What is a half-life?  
The **time** it takes for half of the material you started with to decay.
2. If we start with 400 atoms of a radioactive substance, how many would remain after one half-life? **200** After 2 half-lives? **100** After 3 half-lives? **50** After 4 half-lives? **25**
3. If we start with 16 grams of a substance, how much will remain after 3 half-lives?  
16 → 8 → 4 → 2      **2 grams** after 3 half-lives.
4. A sample of carbon-14 has been decaying for 22,920 years and is now 35.0 grams. What was the size of the original sample? (The half-life of carbon-14 is 5,730 years)  
22920/5730 = 4 half lives      You will need to work backwards  
35 → 70 → 140 → 280 → **560. grams**
7. How old is a skeleton sample if the current amount of carbon in the bones is 3.125%?  
(Assume you started with 100%)  
100% → 50 → 25 → 12.5 → 6.25 → 3.125      5 half lives x 5,730 = **28,650 years**
8. If you started with 120 grams of a radioactive substance, and now you have 15 grams, how many half-lives have passed?  
120 → 60 → 30 → 15      **3 half-lives**
9. The half-life of isotope X is 2.0 years. How many years would it take for a 4.0 mg sample of isotope X to decay and have only 0.50 mg of it remain?  
4.0 → 2.0 → 1.0 → 0.50      3 half lives x 2 years = **6.0 years**
10. The half-life of Po-218 is three minutes. How much of a 200 atom sample will remain after 15 minutes?  
15 minutes/3 = 5 half lives      200 → 100 → 50 → 25 → 12.5 → **6.25 atoms**
11. The half-life of Au-198 is 2.69 days. How long does it take a 180g sample to decay to 1/8 its original mass?  
1 → 1/2 → 1/4 → 1/8      3 half lives x 2.69 days = **8.07 days**
12. What is the half-life of a radioactive sample if 100.0 grams of it decays to 12.5 grams in 24.3 hours?  
100 → 50 → 25 → 12.5      24.3/3 half lives = **8.10 hours**
13. How long will it take a sample of <sup>131</sup>I to decay to 12.5% assuming its half-life is 8.07 days?

# Answer Key To Half Lives

**Disha Experts**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the 'Disha Experts' text.

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