

Half Life Worksheet – Extra Practice

- 1) Fluorine-21 has a half life of approximately 5 seconds. What fraction of the original nuclei would remain after 1 minute? $\frac{1}{4096}$
- 2) Iodine-131 has a half life of 8 days. What fraction of the original sample would remain at the end of 32 days? $\frac{1}{64}$
- ★ 3) The half-life of chromium-51 is 28 days. If the sample contained 510 grams, how much chromium would remain after 56 days? How much would remain after 1 year? How much was present 168 days ago? $\rightarrow 12$
 $\rightarrow .0629$ $\rightarrow 32 \text{ k}$
- ★ 4) If 20.0 g of a radioactive isotope are present at 1:00 PM and 5.0 g remain at 2:00 PM, what is the half life of the isotope? 30 minutes
- 5) The half life of Uranium-238 is 4.5 billion years and the age of earth is 4.5×10^9 years. What fraction of Uranium-238 that was present when Earth was formed still remains? $\frac{1}{2}$
- 6) Chromium-48 decays. After 6 half-lives, what fraction of the original nuclei would remain? $\frac{1}{64}$
- 7) The half life of iodine-125 is 60 days. What fraction of iodine-125 nuclides would be left after 360 days? $\frac{1}{64}$
- 8) Titanium-51 decays with a half life of 6 minutes. What fraction of titanium would remain after one hour? $\frac{1}{1024}$
- 9) A medical institution requests 1 g of bismuth-214, which has a half life of 20 min. How many grams of bismuth-214 must be prepared if the shipping time is 2 h? 64 g
- ★ 10) The half life of radium 226 is 1602 years. If you have 500 grams of radium today how many grams would have been present 9612 years ago? 32,000g

★ = more like what will be on test

Explore Learning Half Life Wkst Answer Key

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