Name Period Date

**Half Life – Ch. 25**

1. The half-life of cobalt-60 is 5.26 years. How many half-lives have passed in 10.52 years?

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1. 12.5% of a radioactive sample are left. How many half-lives have passed?

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1. After 4 half-lives 10 grams of uranium remains. How much uranium did you start with?

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1. A rock that originally had a mass of 1.00 gram of uranium-238 now has only 0.50 grams. How old is the rock if the half-live of uranium-238 is 4.5 billions of years.
2. The radioisotope radon-222 has a half-life of 3.8 days. How much of a 10 g sample of radon-222 would be left after 15.2 days?

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1. Iodine-131 has a half-life of 8 days. If the amount of iodine-131 in a sample is 8 g, how much iodine-131 will remain after 32 days?

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