

Half-Lives

1. Radioactive materials undergo nuclear decay at a constant rate.
2. The half-life is the time required for half of a sample to radioactive decay.
3. The half-life of Iodine - 131 is about 8 days. This means in eight days, half of a sample would remain.

a. Start with 200 mg of Iodine - 131. How many remains after eight days? 100 mg

$$200 \text{ mg} \xrightarrow[\text{HL}]{8 \text{ d}} 100 \text{ mg}$$

b. You have 50 mg of Iodine - 131 remaining. How many half-lives have passed? 2

How many days is this? 16

$$100\% \rightarrow 50\% \rightarrow 25\% \rightarrow 12.5\%$$

c. How long would it take for 87.5% of Iodine to decay?

$$3(\text{HL}) = 24 \text{ days}$$

Half-Life Formula:

$$A = A_0 \left(\frac{1}{2} \right)^n$$

$$n = t/h$$

1. Label the variables above.
 A = amount left
 A_0 = initial amount
 n = number of half-lives
 t = total time passing
 h = time for one half-life
2. Nobelium - 259 has a half-life of 58 minutes. How much remains from a 1000g sample after 1440 minutes?

$$n = \frac{t}{h} = \frac{1440}{58} = 24.8 \quad A = 1000 \left(\frac{1}{2} \right)^{24.8} \rightarrow 3.36 \times 10^{-5} \text{ g remaining}$$

3. Dubnium - 269 has a half-life of 34 seconds. How long will you wait to see 500g of it decay to 1g?

$$A = A_0 \left(\frac{1}{2} \right)^n \quad \log(0.002) = \log(0.5)^{\frac{t}{34}}$$

$$t = 305 \text{ s}$$

$$\frac{1}{500} = \frac{500 \left(\frac{1}{2} \right)^{\frac{t}{34}}}{500} \rightarrow 0.002 \left(\frac{1}{2} \right)^{\frac{t}{34}} \rightarrow \frac{-2.7}{-0.3} = \frac{-0.3 \left(\frac{1}{2} \right)^{\frac{t}{34}}}{-0.3} \rightarrow (34) 8.97 = \left(\frac{t}{34} \right)^{34}$$

Practice Problems using the Formula (SHOW YOUR WORK)

1. The half-life of polonium - 218 is 3 min. If you start with 485g of polonium, how much remains after 22 minutes?

$$A = 485 \left(\frac{1}{2} \right)^{\frac{22}{3}} = 485 \left(\frac{1}{2} \right)^{7.3} = 3.08 \text{ g left}$$

2. The half-life of polonium - 218 is 3 min. How much time will it take to see 25g decay to 3g?

Guided Practice Problem 14 Answers

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web 2 days ago certainly identifying the spider is helpful as the brown recluse has a unique appearance with a yellow to brown color and a fiddle or violin shaped mark on its back he says they typically grow to between 1 and 1 1 2 inches long 2 5 to 3 5 centimeters friedman adds that these spiders like dark warm dry spaces like attics or under

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web feb 3 2010 the brown recluse is a nocturnal spider and will roam at nighttime searching for prey while resting in the daylight hours in his web the web is a loose very irregular sticky set of threads that are colored an off white color brown recluse it is built in a corner which is largely undisturbed by outsiders brown recluses often hide in human

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web the brown recluse is one of three spiders in north america with toxic venom the others being the black widow and the chilean recluse brown recluse spiders are usually between 6 and 20 millimetres 0.24 and 0.79 in but may grow larger while typically light to medium brown they range in color from whitish to dark brown or blackish gray

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web the recluse spiders *loxosceles* l o x o s c e l ' s p i l i : z also known as brown spiders fiddle backs violin spiders and reapers is a genus of spiders that was first described by r t lowe in 1832 they are venomous spiders known for their bite which sometimes produces a characteristic set of symptoms known as loxoscelism

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web apr 24 2023 brown recluses are small spiders with light brown bodies and legs 6 eyes and fine hair on their legs true to their name brown recluses favor sheltered out of the way places and typically aren't out in plain sight brown recluse spiders are native to the southeastern and midwest united states

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