

# HALF-LIFE PROBLEMS

Name \_\_\_\_\_

Block \_\_\_\_\_

1. An isotope of cesium (cesium-137) has a half-life of 30 years. If 1.0 g of cesium-137 disintegrates over a period of 90 years, how many g of cesium-137 would remain?

$$\frac{1.0}{30} = 3 \text{ half-lives}$$

$$= \left( \frac{1}{2} \right)^3 \times 1.0 \text{ g}$$

2. Actinium-226 has a half-life of 13 hours. If 100 mg of actinium-226 disintegrates over a period of 39 hours, how many mg of actinium-226 will remain?

$$\frac{13}{39} = 3 \text{ half-lives}$$

$$\left( \frac{1}{2} \right)^3 \times 100 \text{ mg}$$

3. Radium-226 was the first radioactive element discovered, but it took 5.0 minutes to get the radium from the residue in the laboratory. If 0.05 mg of radium-226 was measured from the reaction, how many mg of radium-226 were placed in the crucible used 0.5 minutes later if the half-life of radium-226 is 1600 seconds?

$$\frac{1600}{5.0} = 320 \text{ half-lives}$$

$$\left( \frac{1}{2} \right)^{320} \times 0.05 \text{ mg}$$

4. The half-life of isotope X is 2.0 years. How many years would it take for a 4.0 mg sample of X to decay until there was only 0.50 mg of it remain?

$$3 \times 2.0 \text{ y} = 6 \text{ y}$$

$$\left. \begin{array}{l} 4.0 \\ 2.0 \\ 1.0 \end{array} \right\} 3 \text{ half-lives}$$

5. Polonium-214 has a half-life of 16.0 minutes. How many minutes would it take for a 10.0 mg sample to decay until there was only 1.25 mg of it remain?

$$3 \times 16 = 48 \text{ min}$$

$$\left( \frac{1}{2} \right)^3 \times 10 = 1.25 \text{ half-lives}$$

6. The half-life of Pu-239 is three minutes. How much of a 2.0 gram sample remains after 15 minutes? (Remember you divided by two every 3 minutes of this isotope, until it reached half its mass for 5 results plus. How much should you divide 2 by until it was 0.125 grams of Pu-239?)

$$\frac{3}{15} = 5 \text{ half-lives}$$

$$\begin{array}{r} 2 \\ 1 \\ 0.5 \\ 0.25 \\ 0.125 \end{array}$$

$$3 \text{ min} \times 5 = 15 \text{ min}$$

$$2 \div 2 \div 2 \div 2 \div 2 = 0.125 \text{ g}$$

# Half Life Calculations Physical Science If8767 Answers

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