



Day 7 Half-Life Decay HW:

- Plutonium-239 is used in hydrogen bombs and has a half-life of 24,300 years. Find the amount remaining of a 45-mg sample after 72,900 years (By: No name 😊).
 - Initial amount: _____
 - Explicit Formula: _____
 - Amount remaining after 72,900 years: _____
 - Cobalt-60 is used in food irradiation and has a half-life of 5 years. If there is a 10 mg sample of Cobalt-60, calculate the amount remaining after 120 years. (By: Gabby Gooch, Caleb Rubright)
 - Initial amount: _____
 - Explicit Formula: _____
 - Amount remaining after 120 years: _____
 - Iodine-125 is used during reactor accidents and can contaminate the thyroid gland. Its half-life is 8.1 days. Find the amount remaining of a 14-mg sample after 14 days (By: Sarena Pineda, Jennifer Ruiz-Flores, Melina Watkins).
 - Initial amount: _____
 - Explicit Formula: _____
 - Amount remaining after 14 days: _____
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