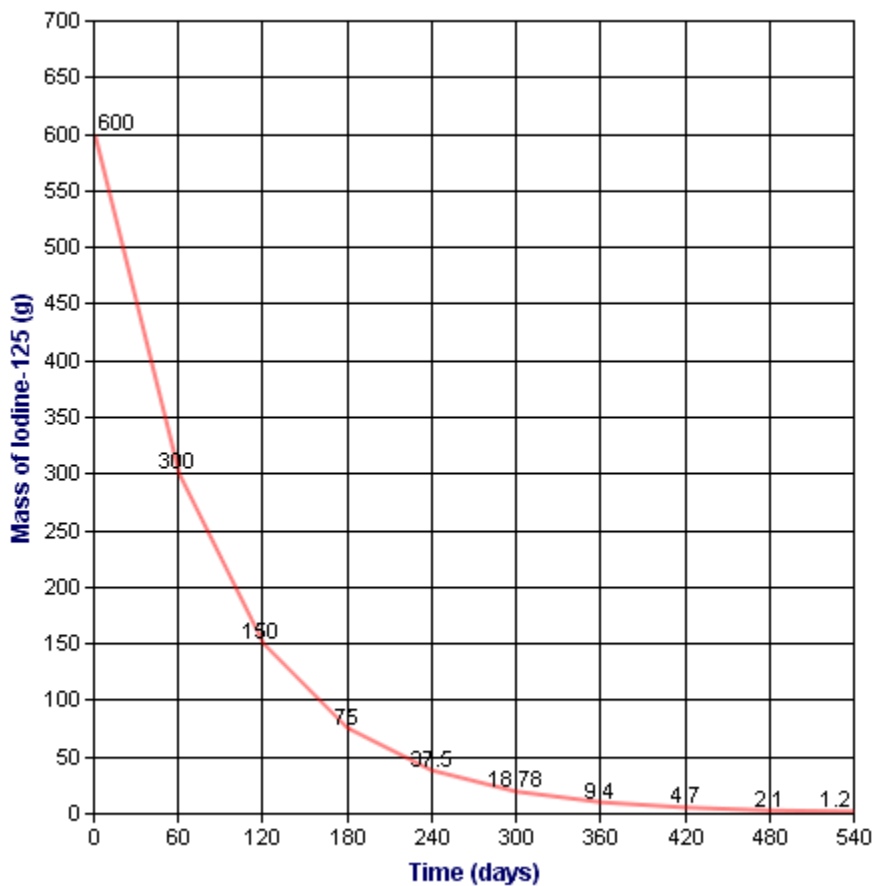


Half-Life Graph Worksheet

Name: _____ Date: _____ Class: _____

Radioactive Decay of Iodine-125



1. What percent of iodine has decayed if 5 half-lives have passed?

2. If three half-lives have passed, how many grams of iodine-125 remain undecayed?

3. What fraction of iodine-125 has decayed if there are 37.5 grams left from the original sample?

4. If 130 days have passed approximately how many grams of iodine-125 will remain?

5. What is the half-life of iodine-125?

6. If 315 days have passed, how many grams of iodine-125 will remain undecayed?

7. What mass of iodine-125 has decayed after 6 half-lives?

8. How many grams of Iodine-125 have decayed away if 12.5 % is remaining?

9. What fraction of Iodine-125 remains after 300 days have passed?

10. How many half-lives have passed if 1.2 grams remains? _____ How many grams decayed? _____