HALF-LIFE PROBLEMS

Name____

Name	Block
1. An isotope of cesium (cesium-137) has a half-li disintegrates over a period of 90 years, how many	ife of 30 years. If 1.0 g of cesium-137 g of cesium-137 would remain?
2. Actinium-226 has a half-life of 29 hours. If 10 period of 58 hours, how many mg of actinium-226	0 mg of actinium-226 disintegrates over a 5 will remain?
3. Sodium-25 was to be used in an experiment, be from the reactor to the laboratory. If 5.0 mg of sochow many mg of sodium-25 were placed in the realife of sodium-25 is 60 seconds?	dium-25 was removed from the reactor
4. The half-life of isotope X is 2.0 years. How man of X to decay and have only 0.50 mg of it remain?	ry years would it take for a 4.0 mg sample
5. Selenium-83 has a half-life of 25.0 minutes. Ho mg sample to decay and have only 1.25 mg of it rer	ow many minutes would it take for a 10.0 main?
6. The half-life of Po-218 is three minutes. How m 15 minutes? Suppose you wanted to buy some of for it reach you. How much should you order if you	this isotone and it required half an hour