Name :		Date :
Radioactiv	e Isotopes Half-lif	e MCQ Worksheet
1. When a radioactive	isotope decays over time, its	s half-life
a. Decreases	b. Increases	c. Stays the same
2. As the temperature	of a radioactive isotope deci	reases, its half-life
a. Decreases	b. Increases	c. Stays the same
-	ctive isotope that initially had ms after 32 days. What is its l	d a weight of 80 milligrams. It half-life?
a. 8 days	b. 12 days	c. 4 days
4. The half-life of iodi	•	ch of a sample of iodine-131 is
a. ½	b. 1/3	c. ½
5. What is the ratio of	uranium-238 to lead-206 in a	a mineral used to determine?
a. Age	b. Density	c. Solubility
6. What is the isotopea. Controlling fissionb. Determining thec. controlling speed	on reactions age of the sample	
7. An isotope has a ha 10 minutes?	lf-life of 2.5 minutes. What p	percentage of the isotope is left after
a. 50 %	b. 3.125%	c. 6.25 %
	ims of tritium will remain af ife of tritium is 12.3 years.	ter 49.2 years if the starting amount
a. Age	b. Density	c. Solubility
	ChemistryLearner.com	m

Name :	Date :
Radioactive Isotopes Half-life	MCQ Worksheet

Radioactiv	e Isotopes Half-li	fe MCQ Worksheet
	Answers	
l. When a radioactive i	sotope decays over time, i	ts half-life
a. Decreases	b. Increases	c. Stays the same
		1 161.6
•	of a radioactive isotope dec	
a. Decreases	b. Increases	c. Stays the same
_	tive isotope that initially has as after 32 days. What is its	ad a weight of 80 milligrams. It s half-life?
(a.) 8 days	b. 12 days	c. 4 days
4. The half-life of iodin left after 24.21 days? a. ½	•	uch of a sample of iodine-131 is (c.) $\frac{1}{8}$
5. What is the ratio of $\mathfrak v$	ıranium-238 to lead-206 in	a mineral used to determine?
a. Age	b. Density	c. Solubility
6. What is the isotope of a. Controlling fission(b) Determining the acceptance of controlling speeds	n reactions ge of the sample	
7. An isotope has a hal 10 minutes?	f-life of 2.5 minutes. What	percentage of the isotope is left after
a. 50 %	b. 3.125%	c. 6.25 %
3. How many milligrar	ns of tritium will remain a	fter 49.2 years if the starting amount

is 32 mg? The half-life of tritium is 12.3 years.

a. Age

b. Density

c. Solubility