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III. ____ = The ACTUAL age of an object _____

A) Absolute Dating _____

1) _____ Dating-- a dating method that compares ____ with

more parent = _____ more daughter = ____

a) _____ decay-- the process in which a radioactive isotope ____ into a ____ isotope

b) _____ -- an atom with the same number of protons as other atoms, but a different number of _____

(1) <u>isotope</u> -- the radioactive isotope
(2) <u>isotope</u>-- the isotope produced after a radioactive decay

c) _____ -- the time it takes one half of the ____ material to decay into ____ material

d) types of _____

Parent Isotope	Daughter Isotope	Half-life	Effective range
Carbon-14	Nitrogen-14	5730 years	less than 70,000 years
Uranium-235	Lead-207	704 million	10 mill - 4.6 bill
Uranium-238	Lead-206	4.5 bill	10 mill - 4.6 bill
Potassium-40	Argon-40	1.25 billion	50,000 - 4.6 bill
Thorium-232	Lead-208	14 bill	up to 200 mill
Rubidium-87	Strontium-87	48.8 bill	10 mill - 4.6 bill

