

Name:

Date:

**Work each of the following problems. SHOW ALL WORK.**

1. Write the symbolic notation for lead-207.

2. How many protons does lead-207 have? How do you know?

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3. How many neutrons does lead-207 have? How do you know?

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4. Complete the following table:

Isotope	Symbol	Mass #	Atomic #	# Protons	# Neutrons
boron-11					
cobalt-59					
cesium-133					
chlorine-35					
argon-40					

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**Work each of the following problems. SHOW ALL WORK.**

5. Write the element that is formed in the beta-minus decay of carbon-14.

6. Write the element that is formed in the alpha decay of radium-224.

7. Write the equation for the beta-minus decay of phosphorous-32.

8. Write the equation for the alpha decay of plutonium-238.