

## Decay Practice Worksheet #1

### Isotopes

For each of the following isotopes, write the number of protons and neutrons in one nucleus.

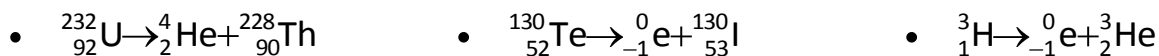
Name	Nitrogen-15	Nitrogen-20	Chromium-58	Chromium-63	Sodium-12	Sodium-20
# of protons						
# of neutrons						

For each of the following isotopes, fill in the missing name of the isotope.

Name	Iron- _____	Iodine- _____				
# of protons			46	55	25	32
# of neutrons	27	32	51	113	17	30

### Balancing Decay Reactions

State whether each of the following reactions is alpha, beta, or gamma decay.



Write the balanced decay reaction formula when each of the following radioactive isotopes decays in the manner stated.

- ${}_{20}^{45}\text{Ca}$  (beta)
- ${}_{94}^{234}\text{Pu}$  (alpha)
- ${}_{84}^{210}\text{Po}$  (alpha)
- ${}_{11}^{24}\text{Na}$  (beta)