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| **ELEMENT #1** 1. I am a non-metal.
2. I belong to the Halogen family.
3. I am not the largest or smallest atom in my group.
4. My first ionization energy is greater than that of iodine.
5. I am in period 4.

What element am I? Write my symbol with common ionic charge. How many valence electrons do I have? | **ELEMENT #4** 1. I am a transition metal.
2. I have the highest electron affinity in my group.
3. My electronegativity is smaller than Manganese.
4. My melting point is the greatest of the elements left.

What element am I?  |
| **ELEMENT #2** 1. I am a metal.
2. I have an atomic radius larger than scandium.
3. I am an alkali metal.
4. I have the largest atomic radius in my group.

What element am I? Write my symbol with common ionic charge. How many valence electrons do I have? | **ELEMENT #5** 1. I am a main group element.
2. I am in the nitrogen family
3. I have a lower electronegativity than arsenic.
4. I am not the largest atom in my group.

What element am I? Write my symbol with common ionic charge. How many valence electrons do I have? |
| **ELEMENT #3**1. The radius of my most common ion is smaller than my atomic radius.
2. I am not a transition metal
3. I form an ion with a 2+ charge.
4. I have lower first ionization energy than calcium.
5. I have a smaller atomic radius than barium.

What element am I? Write my symbol with common ionic charge. How many valence electrons do I have? | **ELEMENT #6**1. The radius of my most common ion is larger than my atomic radius.
2. I have 6 valence electrons.
3. I have a higher electronegativity than tellurium.
4. I am the smallest atom in my group.

What element am I? Write my symbol with common ionic charge. How many valence electrons do I have? |