

# Activity

## Classification of Elements: The Periodic Table

### Identifying Unknown Elements

Use the periodic table to identify the elements described in the statements below.

1. This element is in the same family as lead, and it has fewer protons than sodium.  
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2. This element has an atomic number that is one greater than platinum.  
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3. This element has the most protons of any element in Group 15.  
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4. This element has more than 50 but less than 75 protons, and it is in Group 17.  
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5. This Group 2 element has fewer protons than bromine, but more protons than sulfur.  
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6. This element has the lowest atomic number of any Group 16 element.  
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7. This element has an atomic number that is double the atomic number of silicon.  
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8. This element has more valence electrons than oxygen, fewer valence electrons than neon, more protons than sodium, but fewer protons than argon.  
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9. This element has an atomic number lower than that of aluminum and one less valence electron than the Group 16 elements.  
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10. This element is in Group 1 and has a higher atomic number than chlorine, but a lower atomic number than bromine.  
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