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| **Skill 17.1 Exercise 1** |
| Consider the elements on the periodic table. |
| (a) Indicate the name of a data type that could be used to represent each element |
| (b) Indicate the types of data that are required to represent each element |

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| **Skill 17.2 Exercise 1** |
| The Element class represents different elements on the periodic table. Write the Element class below. |
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| **Skill 17.3 Exercise 1** |
| The ElementMaker class creates elements by instantiating the Elements class above. Write code that could be used to create the elements Nitrogen and Oxygen. |
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| **Skill 17.4 Exercise 2** |
| Modify the Element class above to accept parameters and assign the instance variables defined above to the their values. |
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| **Skill 17.4 Exercise 2** |
| A student executes the following command. Write code that could be used to create Element objects for the arguments helium and neon.  java ElementMaker helium neon |
| public class ElementMaker{  public static void main(String args[]){  }  } |

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| **Skill 17.4 Exercise 3** | |
| What is printed? | |
| public class StudentMaker{  public static void main(String args[]){  Student student3 = new Student(“Marvin”, 12);  }  } | public class Student{  public String name;  public int gradeLevel;  public Student(String n, int gl){  System.out.println(“My name is “ + n + “I am in “ + gl + “th grade”);  } |
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