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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 Elements class represents different elements on the periodic table. Write the elements 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. Call these Element objects, element1 and element2  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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