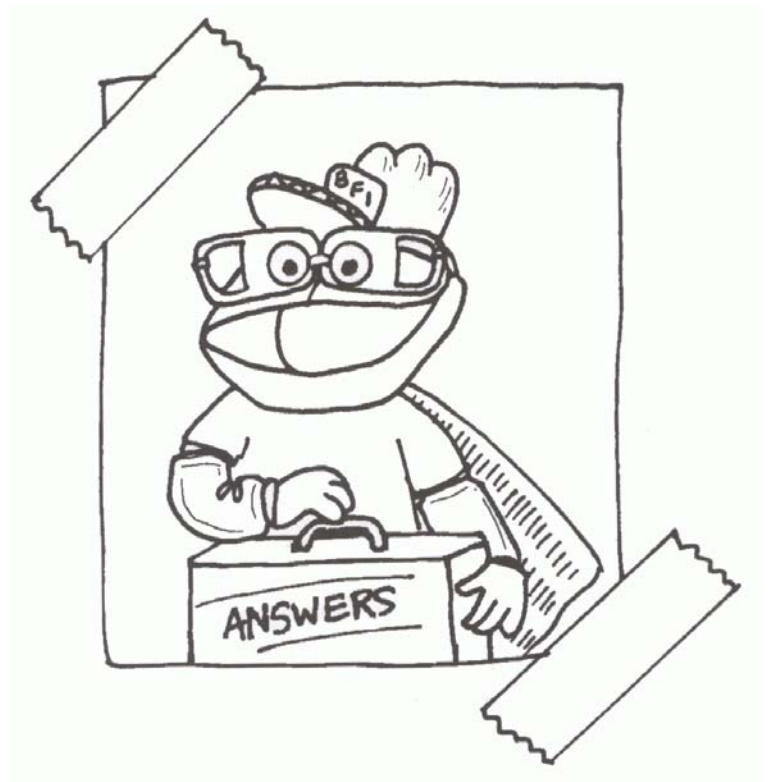


Answers for Lessons Two and Three

The MOBIUS Recycling Center

1. 46 cents
2. 47 cents
3. 94 cents
4. 41 cents; 9 cents
5. \$4.80; \$5.20



The MOBIUS Beverage Company

Glass Equations

1.
$$\begin{array}{r} 31,500 \\ + \underline{539,264} \\ \hline 570,764 \end{array}$$
 - 12 recycled bottles ($12 \times 2,625$)
- 88 bottles of nonrecycled materials ($88 \times 6,128$)
- **Total BTUs**
2.
$$\begin{array}{r} 131,250 \\ + \underline{306,400} \\ \hline 437,650 \end{array}$$
 - ($50 \times 2,625$)
- ($50 \times 6,128$)
- **Total BTUs**
3. **133,114 - BTUs saved**

Aluminum Equations

1.
$$\begin{array}{r} 110,000 \\ + \underline{281,250} \\ \hline 391,250 \end{array}$$
 - ($55 \times 2,000$)
- ($45 \times 6,250$)
- **Total BTUs**
2.
$$\begin{array}{r} 170,000 \\ + \underline{93,750} \\ \hline 263,750 \end{array}$$
 - ($85 \times 2,000$)
- ($15 \times 6,250$)
- **Total BTUs**
3. **127,500 - BTUs saved**

Plastic Equations

1.
$$\begin{array}{r} 37,440 \\ + \underline{210,000} \\ \hline 247,440 \end{array}$$
 - ($20 \times 1,872$)
- ($80 \times 2,625$)
- **Total BTUs**
2.
$$\begin{array}{r} 93,600 \\ + \underline{131,250} \\ \hline 224,850 \end{array}$$
 - ($50 \times 1,872$)
- ($50 \times 2,625$)
- **Total BTUs**
3. **22,590 - BTUs saved**

The MOBIUS Metric System

1. 11.025 kilograms of garbage per week
2. 291.71 pounds per year
3. A box .9144 meters by .9144 by 8.2296 meters
4. 13.26 pounds, you'll have to take your bicycle
5. Past Michael's house is faster. There are about 3,280 feet in a kilometer, a mile equals 5,280 feet
6. If you weigh 80 pounds, you weigh 36 kilograms ($80 \times .45 = 36$)

If you weigh 40 kilograms, you weigh 88.4 pounds ($40 \times 2.21 = 88.4$)

7. 52.65 kilograms

6,480,000 kilograms generated, 90,000 kilograms recycled

