

## **Worksheet A: Answer Guide**

### **A. Materials and Impact on Landfill**

Question 1:

55% of the steel will end up going to the landfill. This means that 11 pounds of steel will end up in the landfill.

$$[20 \text{ pounds} \times 0.55 = 11 \text{ pounds}]$$

3 pounds of vacuum pack material will end up in the landfill.

Question 2:

85% recycle rate. At this rate, the steel produces 3 pounds of excess material that will end up in the landfill.

$$[1 - (3 \text{ pounds}) / (20 \text{ pounds}) = .85]$$

### **B. Buying in Bulk**

Question 1:

Each small box has a surface area of 153 square inches. The 8 boxes have a total of 1224 square inches.

Question 2:

Each large box has a surface area of 342 square inches. The 2 boxes have a total of 684 square inches.