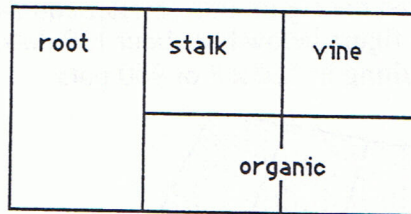# Commentary
Jupiter, XIII

1. **(8 chances out of 100, 8/100, 8%, 8:100, or a reduced form of these answers, such as 4/50, 2/25, and so forth.)** Students can obtain such an answer by making a chart of the possibilities. The chart below shows the eight possibilities of success, out of the 100 possibilities for the two cards.

2. **(Joey)** Joey earned $1.50 x 20 = $30.00; Susan earned $5.00 x 5 = $25.00.

3. **(2/6 or 1/3)** A diagram such as that below will help the student find the answer. The organic portion is 2 pieces out of 6 that would make the whole garden, hence 2/6 or 1/3 is the answer.

4. **(35 ÷ 7 = 5)** The problem is a simple partitioning interpretation of division.

5. **(a. 5 feet by 4 feet; b. 15 kilograms)** Both problems involve number sense. Students can eliminate all the unreasonable answers simply because of what they know about the size and weight of a bicycle.

6. **(a. 9; b. 104; c. Lamps, Television, and Walkman)** Students can count the types of appliances directly from the chart for (a). For (b), the total number of light bulbs in the chart is 26, and each stands for 4 appliances from the key, so the total is 104. Lamps is most popular with 5 light bulbs, followed by Television and Walkman with 4 each.

7. **(189, 180, 117)** The pattern involves subtracting 9 each time you move one term to the right.