Commentary Jupiter, V

 (a. Answers will vary -- 10 and 11 are the most common answers; b. Answers will vary.) Students should use a calculator to compute:

25 x 60 x 16 x 365 x (answer for part a)

If part a is 10, the answer is 88 million; if part a is 11, the answer is 96 million.

- (11 quarters, 4 dimes) Some students will randomly use guess-check-revise, while others
 realize that the amount of money in quarters alone should be fairly close to \$3.15, and begin
 working backward from there, using guess-check-revise.
- 3. (rectangle: 28 cm; 2 triangles: 32 and 36 cm; 2 parallelograms: 32 and 36 cm) These are the four most likely answers, but a quadrilateral could also be built with a perimeter of 36 cm. Note: parallelograms cannot be named as rectangles.

- 5. (c. dime) A century is ten times a decade; likewise, a dollar is ten times a dime.
- 6. (12) Students have to consider a problem that is not one usually asked. If 3 is 1/4 of some number, what number is it?
- 7. (2 out of 3 chances, or 2/3, or 67%) There are three spaces left, and two of those will result in a win for the computer. Any of the three spots are equally likely to be selected, so the chance is 2/3 of a win.
- 8. (25, 3, 3, 9) Students familiar with a Venn Diagram should have little difficulty with this problem. All the X's are counted for the first answer. Only 3 X's are in the RAP ring only. Three students are in the overlap between rock and country, but not in RAP. There are 9 students that are in the RAP and country circles together, but not in the rock circle.