Name:

Finding the Common Value (not the R & B Singer)

1. Shane has 72 inches of copper wire and 42 inches of steel wire.
    a. What are the largest pieces he can cut these wires into so that each piece is the same length? Explain how you determined your answer.

    b. How many pieces of wire will he have? Explain how you determined your answer.

2. A school principal plans to form teams from 126 third-graders, 180 fourth-graders, and 198 fifth-graders. Each team will be composed of students from the same grade, and all of the teams need to have the same number of students. If all students participate, what is the largest possible size of the teams and how many teams will there be? Explain how you determined your answer.

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3. A scientist starts two experiments at the same instant. In the first experiment, a measurement has to be made every 168 seconds, while in the second, a measurement has to be made very 108 seconds. After how many seconds will the scientist have to make two measurements at the same instant? Explain how you determined your answer.

4. Find the smallest counting number that is a multiple of both 72 and 378. Explain how you determined your answer.