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**THE PROBLEM:**

Sally works 40 hours a week and makes $6.85 an hour, but her kids are in child care for 32 hours a week and the day care center charges her $15 per day. If you deduct her child care expenses, how many dollars **per hour** does she actually make? (*Also known as the hourly net pay*.) Source: # 12 p. 27 in *Mathematics for Elementary School Teachers*, Bassarear, 4th edition, Cengage

1. Explain why there seems to be no unique answer for her **hourly** net pay to this stated problem. Include your thoughts on how you came to this conclusion. (You may have to start working on a solution in order to discover that there actually is not just one correct answer to this problem of finding a possible hourly net pay.)
2. State a fixed version of the problem that has a unique correct answer. Write the entire word problem, not just the part you are fixing. (Do NOT change the question which asks her hourly net pay, only what is known about Sally’s expenses.)
3. Work out and explain the solution to the fixed version of the problem that you stated in part (b). Make sure that your work leads to the hourly net pay as an answer and is well explained.
4. How realistic are all aspects of this problem? Please comment.

**THE GRADING RUBRIC:**

**\_\_\_\_\_\_ The work is neat**

**\_\_\_\_\_\_ Used correct spelling and grammar**

**\_\_\_\_\_\_The work goes in the right direction**

**\_\_\_\_\_\_ An explanation is included with part (a)**

**\_\_\_\_\_\_ The rewritten problem in part (b) is complete**

**\_\_\_\_\_\_ The stated problem in part (b) has a unique answer**

**\_\_\_\_\_\_ Steps are shown in part (c)**

**\_\_\_\_\_\_ Worked out all calculations that can’t / shouldn’t be done mentally**

**\_\_\_\_\_\_ Did and displayed all calculations correctly**

**\_\_\_\_\_\_ The answer to part (c) is correct**

**\_\_\_\_\_\_ An explanation is included with part (c)**

**\_\_\_\_\_\_ All explanations are clear and easy to follow**

**\_\_\_\_\_\_ Part (d) has been completed thoughtfully**