Problem-Solving Decision: Multistep Problems

Read each problem and use a problem-solving strategy to answer each question.

Problem For the school musical, the theatre group sold 382 adult tickets and 246 student tickets. Adult tickets sold for $6 each and student tickets sold for $4 each. The musical was 105 minutes long. Each of the three acts were the same length and there was a 15-minute intermission between the first and second acts and between the second and third acts.

1. How much did the theatre group earn from student ticket sales?

2. How much did the theatre group earn from ticket sales? Explain how you found your answer.

3. How long was each act of the musical? Explain how you found your answer.

4. On the night of the musical, 100 seats in the auditorium were empty. If there are 26 seats in each row of the auditorium, how many rows of seats are in the auditorium? Explain how you found your answer.