NAME _____ DATE _____

Module 4 Solving Problems Using Linear Equations of One Variable
Lesson 2 Solving Consumer/Business Problems Using Equations of One Variable

guided practice

Set 1

1. Gia earns $10.25 each hour. How many hours did Gia work if she earned $297.25?

2. Gia earns extra money by working as a DJ at local parties. She charges $65 per party for set-up plus $15 for each hour of the party she works. If Gia earned $132.50 at her last party, how many hours did she work?

3. The sum of two consecutive integers is –9. What are the two integers?

4. The sum of three consecutive even integers is 36. What are the three integers?

Set 2

1. The quality control manager of a major manufacturer has calculated that approximately 1.5% of the light bulbs in each case will be defective. For his calculations, he used the fact that in a case of light bulbs, 3 are defective. Use this information to determine the number of light bulbs in a case.

2. Marshal earns 8% commission selling paintings. His commission last week was $42.08. What was the amount of his sales last week?

3. The price of a snowboard at MadMan's Sporting is $362.50. The markup on the snowboard was 45%. What was the wholesale price of the snowboard?

4. After Kyle used a 25% off coupon to buy CDs, he paid $78.75. What was the price of the CDs before the discount?