
NAME

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?

Gia worked 29 hours.

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?

Gia worked 4.5 hours.

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

The two integers are -5 and -4 .

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

The integers are 10, 12, and 14.

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.

There are 200 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?

The amount of his sales was \$526.

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?

The wholesale price was \$250.

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?

The original price was \$105.

