

NAME _____

DATE _____

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



**guided
notes**

Lesson Objectives

- Write and solve equations of one variable to solve consumer and business problems.
- Solve consecutive integer problems.
- Solve consumer and business problems using percents.

Plan for Solving a Problem

- Information _____
- What are we trying _____
- Choose a _____
- Write an _____
- _____ the equation
- Determine the _____
- _____ the answer

- 1 Ferd ordered custom lunch boxes for the members of the Sci-Fi Fan Club. He paid a \$30 set-up fee for the order and \$4 for each lunch box. The total cost was \$102. Use this information to determine how many lunch boxes Ferd ordered. _____

Consecutive integers are _____.

- 2 The sum of two consecutive even integers is 62. What are the two integers?
- _____

_____ is a paid percentage of the value of a person's sales.

3 A worker paid 7.5%, or \$187.50, of her income in taxes last month. How much did she earn last month before the taxes were paid? _____

4 Jamal earns \$500 in base pay each month as a waiter in a restaurant. He also earns about 15% of the total of his customers' bills in tips. If Jamal earned a total of \$770 last month, what was the approximate total of his customers' bills? _____

The price store owners pay for an item is called the _____.

_____ is the price charged minus the wholesale price.

5 Ingrid paid \$81 for a sweater including an 8% sales tax. What was the price of the sweater without the sales tax? _____