NAME

Module 4 Solving Problems Using Linear

Equations of One Variable

Lesson 2 Solving Consumer/Business Problems

Using Equations of One Variable

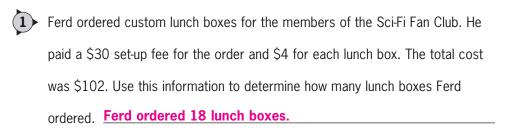
guided notes

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 given
- What are we trying to find
- Choose a variable
- Write an equation
- <u>Solve</u> the equation
- Determine the **answer**
- Check the answer



Consecutive integers are **numbers in counting order**



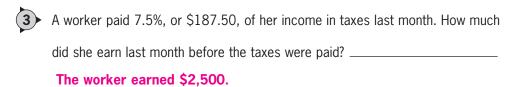
The sum of two consecutive even integers is 62. What are the two integers?

The integers are 30 and 32.

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Module 4 Lesson 2 Guided Notes

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



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 total of Jamal's customers' bills was \$1,800.

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

Markup

is the price charged minus the wholesale price.

Ingrid paid \$81 for a sweater including an 8% sales tax. What was the price of the sweater without the sales tax? The sweater was \$75.