

Name: _____ Hour: _____ Date: _____

NOTES: Word Problem Practice

Goals: #1 - I can use linear systems to solve real-life problems.



Homework: Chapter 7 Take Home Quiz

Review:

A _____, consists of two _____ equations.

Notes:

We can write a _____ that models a real-life problem.

We will need to decide which _____ is most efficient to solve these real-life problems.

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Example #1: Set up a system of linear equations that models each real-life problem. DO NOT SOLVE.

1. In one week a music store sold 7 violins for a total of \$1600. Two different types of violins were sold. One type cost \$200 and the other type cost \$300. How many of each type of violin did the store sell?

Variables: Let _____ represent _____. Let _____ represent _____.

Equation #1: _____

Equation #2: _____

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2. You and your friend go to a Mexican restaurant. You order 2 tacos and 2 enchiladas and your friend orders 3 tacos and 1 enchilada. Your bill was \$4.80 and your friend's bill was \$4.00. How much does a taco and an enchilada cost?

Variables: Let _____ represent _____. Let _____ represent _____.

Equation #1: _____

Equation #2: _____

Example #2: Set up a system of linear equations that models each real-life problem and SOLVE.

1. My friend and I went out for lunch. I ordered 3 slices of pizza and 5 breadsticks and spent \$20.50. My friend ordered 6 slices of pizza and 1 breadstick and spent \$23. How much does a slice of pizza and a breadstick cost?

Variables: Let _____ represent _____. Let _____ represent _____.

Equation #1: _____

Equation #2: _____

Solution Method: _____

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2. A business rents out men's suits for \$50/day and men's shoes for \$20/day. During one day, the business had a total of 37 rental items and collects \$1490 for the rentals. Find the number of men's suits rented and men's shoes rented.

Variables: Let ____ represent _____. Let ____ represent _____.

Equation #1: _____

Equation #2: _____

Solution Method: _____

You practice: Set up a system of linear equations that models each real-life problem. DO NOT SOLVE.

1. A business rents in-line skates for \$15 and bicycles for \$30. During one day, the business has a total of 25 rentals and collects \$450 for the rentals. Find the number of pairs of skates rented and the number of bicycles rented.

Variables: Let ____ represent _____. Let ____ represent _____.

Equation #1: _____

Equation #2: _____