

Name _____

Writing Systems of Equations 3

Directions: Assign two variables for each problem, and write the equations.
Do not solve.

1. Ranger Shoe Company manufactures two types of shoes, athletic shoes and casual shoes. The cost of manufacturing 20 pairs of athletic shoes and 10 pairs of casual shoes is \$750. If 25 pairs of athletic shoes and 20 pairs of casual shoes were manufactured, the cost would be \$1,200. How much does it cost to manufacture each type of shoe?

Set up:Equations:

Let _____ = _____ _____
 _____ = _____ _____

2. Julio has a \$60 gift certificate from a local bookstore. He was planning to spend the entire amount by purchasing 2 hardback books and 6 paperback books. However, he purchased only 2 hardback books and 3 paperback books, and he still has \$20.25 left on the gift certificate. Find the cost of a hardcover book and the cost of a paperback book.

Set up:Equations:

Let _____ = _____ _____
 _____ = _____ _____

3. To raise funds, the band sells two sizes of cookie dough, one for \$6 and another for \$10. If 205 containers of cookie dough were sold with cash receipts of \$1,710, how many containers of each size were sold?

Set up:Equations:

Let _____ = _____ _____
 _____ = _____ _____

4. Lauren spends her allowance, \$50 a month, on makeup and CDs. She spends \$10 more a month on CDs than she does on makeup. How much money does she spend every month on each product?

Set up:Equations:

Let _____ = _____ _____
 _____ = _____ _____

Writing Systems of Equations 3 *(cont.)*

Directions: Assign two variables for each problem and write the equations. **Solve.**

5. The cost of Renegade's new CD is 3 times the cost of its tape. If 2 CDs and 3 tapes cost \$47.70, what is the cost of each?

Set up:

Equations:

Let _____ = _____

_____ = _____

6. A small container of popcorn sells for \$0.75, and a large container of popcorn sells for \$1.25. How many containers of each size were sold if a total of 210 containers were sold for \$232.50?

Set up:

Equations:

Let _____ = _____

_____ = _____
