

Name _____ DATE _____ PERIOD _____

Systems with a Vengeance

Solve each problem using a system of equations.

1. The sum of two numbers is 25. And their difference is 7. Find the numbers.
2. Cory has \$24 more than twice as much as Stan does. Together they have \$150. How much money does each have?
3. The length of a rectangle is 5 more than twice the width. The perimeter is 130 in. What is the area?
4. Phil has 50 nickels and dimes worth \$4.15. How many dimes does he have?
5. The bill for five glasses of apple juice and four salads is \$9.50, but the bill for four glasses of apple juice and five salads is \$10.30. What would be the bill for a glass of apple juice and a salad?

6. A movie theater charges \$5 for an adult ticket and \$2 for a child's ticket. One Saturday the theater sold 785 tickets for \$3280. How many children's tickets were sold for the movie that Saturday?

7. One number is 4 less than eleven times another. The sum of the two numbers is 92. Find the numbers.

8. Marcia has \$84 less than three times as much as Sue does. Together they have \$132. How much money does Marcia have?

9. Fred and Sara work as part-time employees for a lawyer. Last week Fred worked 4 hours more than twice the number of hours that Sara worked. Together they worked a total of 37 hours. What was the total number of hours that Fred worked last week?

10. Sally has \$21.40 in dimes and quarters, for a total of 100 coins. How many of each kind of coin does Sally have?

11. Three pens and two notebooks cost \$8.25. Two pens and three notebooks cost \$8.00. How much would two pens and two notebooks cost?

12. Six grapefruit cost as much as a dozen oranges. The cost of a dozen grapefruit and two dozen oranges is \$12. How much does one grapefruit cost?