

Name: _____

Unit 5: Systems of Equations

Date: _____ Bell: _____

Homework 6: Systems Word Problems

**** This is a 2-page document! ****

Solve each word problem using a system of equations. Use substitution or elimination.

1. One number added to three times another number is 24. Five times the first number added to three times the other number is 36. Find the numbers.

1st number 3
2nd number 7

2. Ashley had a summer lemonade stand where she sold small cups of lemonade for \$1.25 and large cups for \$2.50. If Ashley sold a total of 155 cups of lemonade for \$265, how many cups of each type did she sell?

Small 98
Large 57

3. Your family goes to a Southern-style restaurant for dinner. There are 6 people in your family. Some order the chicken dinner for \$14 and some order the steak dinner for \$17. If the total bill was \$99, how many people ordered each dinner?

ordered chicken 1
" " steak 5

4. Tickets to a movie cost \$7.25 for adults and \$5.50 for students. A group of friends purchased 8 tickets for \$52.75. How many adult tickets and student tickets were purchased?

adults 7
students 1

5. A sporting goods store sells right-handed and left-handed baseball gloves. In one month, 12 gloves were sold for a total of \$561. Right-handed gloves cost \$45 each and left-handed gloves cost \$52 each. How many of each type of glove were sold?

right 9
left 3

6. David bought 3 DVDs and 4 books for \$40 at a yard sale. Anna bought 1 DVD and 6 books for \$18. How much did each DVD and book cost?

DVD \$12.00
Book \$1.00

7. Airline fares for a flight from Dallas to Austin are \$30 for first class and \$25 for tourist class. If a flight had 52 passengers who paid \$1360, how many first class and tourist class passengers were there?

First 12
Tourist 40

8. Sue has 100 dimes and quarters. If the total value of the coins is \$21.40, how many of each kind of coin does she have?

Dimes 24
Quarters 26

9. At the Holiday Valley Ski Resort, skis cost \$16 to rent and snowboards cost \$19. If 28 people rented on a certain day and the resort brought in \$478, how many skis and snowboards were rented?

18 skis
10 snowboards

10. Ben and Joel are raising money for their class trip by selling wrapping paper. Ben raised \$43.50 by selling 12 rolls of solid paper and 9 rolls of printed paper. Joel raised \$51.50 by selling 8 rolls of solid paper and 15 rolls of printed paper. Find the cost of each type of wrapping paper.

1.75 rolls solid
2.5 rolls printed