

Assignment

Date _____ Period _____

© 2013 Kuta Software LLC. All rights reserved.

1) Find the value of two numbers if their sum is 9 and their difference is 1.

2) The sum of two numbers is 14. Their difference is 2. Find the numbers.

3) Find the value of two numbers if their sum is 13 and their difference is 3.

4) The sum of two numbers is 11. Their difference is 3. Find the numbers.

5) Find the value of two numbers if their sum is 12 and their difference is 2.

6) The school that Mofor goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 1 senior citizen ticket and 5 child tickets for a total of \$22. The school took in \$71 on the second day by selling 8 senior citizen tickets and 5 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.

7) Krystal and Joe each improved their yards by planting hostas and ornamental grass. They bought their supplies from the same store. Krystal spent \$34 on 1 hosta and 8 bunches of ornamental grass. Joe spent \$74 on 5 hostas and 8 bunches of ornamental grass. Find the cost of one hosta and the cost of one bunch of ornamental grass.

8) Lisa and Julia each improved their yards by planting daylilies and geraniums. They bought their supplies from the same store. Lisa spent \$120 on 5 daylilies and 8 geraniums. Julia spent \$60 on 5 daylilies and 2 geraniums. Find the cost of one daylily and the cost of one geranium.

9) Beth's school is selling tickets to a play. On the first day of ticket sales the school sold 1 adult ticket and 5 student tickets for a total of \$64. The school took in \$24 on the second day by selling 1 adult ticket and 1 student ticket. What is the price each of one adult ticket and one student ticket?

- 10) The senior classes at High School A and High School B planned separate trips to the local amusement park. The senior class at High School A rented and filled 7 vans and 5 buses with 337 students. High School B rented and filled 8 vans and 1 bus with 107 students. Each van and each bus carried the same number of students. How many students can a van carry? How many students can a bus carry?
- 11) The state fair is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 2 vans and 4 buses with 182 students. High School B rented and filled 4 vans and 5 buses with 241 students. Each van and each bus carried the same number of students. How many students can a van carry? How many students can a bus carry?

- 12) The senior classes at High School A and High School B planned separate trips to New York City. The senior class at High School A rented and filled 1 van and 4 buses with 142 students. High School B rented and filled 5 vans and 3 buses with 166 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 13) New York City is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 8 vans and 2 buses with 228 students. High School B rented and filled 4 vans and 5 buses with 314 students. Each van and each bus carried the same number of students. How many students can a van carry? How many students can a bus carry?

14) Eduardo and Matt are selling pies for a school fundraiser. Customers can buy blueberry pies and pumpkin pies. Eduardo sold 6 blueberry pies and 7 pumpkin pies for a total of \$100. Matt sold 5 blueberry pies and 5 pumpkin pies for a total of \$75. Find the cost each of one blueberry pie and one pumpkin pie.

15) Daniel and John are selling cheesecakes for a school fundraiser. Customers can buy French silk cheesecakes and strawberry cheesecakes. Daniel sold 6 French silk cheesecakes and 2 strawberry cheesecakes for a total of \$122. John sold 7 French silk cheesecakes and 7 strawberry cheesecakes for a total of \$231. Find the cost each of one French silk cheesecake and one strawberry cheesecake.

- 16) The school that Dan goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 7 adult tickets and 7 student tickets for a total of \$175. The school took in \$125 on the second day by selling 8 adult tickets and 3 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 17) The local amusement park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 5 vans and 5 buses with 170 students. High School B rented and filled 3 vans and 7 buses with 190 students. Each van and each bus carried the same number of students. How many students can a van carry? How many students can a bus carry?

Answers to Assignment (ID: 1)

- 1) 4 and 5
- 2) 6 and 8
- 3) 5 and 8
- 4) 4 and 7
- 5) 5 and 7
- 6) senior citizen ticket: \$7, child ticket: \$3
- 7) hosta: \$10, bunch of ornamental grass: \$3
- 8) daylily: \$8, geranium: \$10
- 9) adult ticket: \$14, student ticket: \$10
- 10) Van: 6, Bus: 59
- 11) Van: 9, Bus: 41
- 12) Van: 14, Bus: 32
- 13) Van: 16, Bus: 50
- 14) blueberry pie: \$5, pumpkin pie: \$10
- 15) French silk cheesecake: \$14, strawberry cheesecake: \$19
- 16) adult ticket: \$10, student ticket: \$15
- 17) Van: 12, Bus: 22