

Systems of Equations Word Problems #1

Date _____ Period _____

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1) The sum of two numbers is 24. Their difference is 2. What are the numbers?

2) Going down the river a boat went 23 km/h. Going up the river it only went 5 km/h. Find the current and the speed of the boat if there were no current.

3) Pranav and Ndiba are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and bags of daffodil bulbs. Pranav sold 5 packages of tulip bulbs and 1 bag of daffodil bulbs for a total of \$53. Ndiba sold 5 packages of tulip bulbs and 3 bags of daffodil bulbs for a total of \$89. Find the cost each of one package of tulips bulbs and one bag of daffodil bulbs.

- 4) Sumalee and Beth each improved their yards by planting rose bushes and ivy. They bought their supplies from the same store. Sumalee spent \$24 on 1 rose bush and 3 pots of ivy. Beth spent \$84 on 11 rose bushes and 3 pots of ivy. Find the cost of one rose bush and the cost of one pot of ivy.
- 5) Totsakan's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 14 senior citizen tickets and 2 student tickets for a total of \$74. The school took in \$26 on the second day by selling 2 senior citizen tickets and 2 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 6) The senior classes at High School A and High School B planned separate trips to the county fair. The senior class at High School A rented and filled 7 vans and 9 buses with 430 students. High School B rented and filled 11 vans and 9 buses with 470 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?

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1) The sum of two numbers is 24. Their difference is 2. What are the numbers?

11 and 13

2) Going down the river a boat went 23 km/h. Going up the river it only went 5 km/h. Find the current and the speed of the boat if there were no current.

Boat: 14 km/h, Current: 9 km/h

3) Pranav and Ndiba are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and bags of daffodil bulbs. Pranav sold 5 packages of tulip bulbs and 1 bag of daffodil bulbs for a total of \$53. Ndiba sold 5 packages of tulip bulbs and 3 bags of daffodil bulbs for a total of \$89. Find the cost each of one package of tulips bulbs and one bag of daffodil bulbs.

package of tulips bulbs: \$7, bag of daffodil bulbs: \$18

- 4) Sumalee and Beth each improved their yards by planting rose bushes and ivy. They bought their supplies from the same store. Sumalee spent \$24 on 1 rose bush and 3 pots of ivy. Beth spent \$84 on 11 rose bushes and 3 pots of ivy. Find the cost of one rose bush and the cost of one pot of ivy.

rose bush: \$6, pot of ivy: \$6

- 5) Totsakan's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 14 senior citizen tickets and 2 student tickets for a total of \$74. The school took in \$26 on the second day by selling 2 senior citizen tickets and 2 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.

senior citizen ticket: \$4, student ticket: \$9

- 6) The senior classes at High School A and High School B planned separate trips to the county fair. The senior class at High School A rented and filled 7 vans and 9 buses with 430 students. High School B rented and filled 11 vans and 9 buses with 470 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?

Van: 10, Bus: 40