

Worksheet

May 31, 2017 _____

- 1) Willie and Jacob each improved their yards by planting rose bushes and shrubs. They bought their supplies from the same store. Willie spent \$30 on 14 rose bushes and 1 shrub. Jacob spent \$52 on 14 rose bushes and 12 shrubs. What is the cost of one rose bush and the cost of one shrub?

rose bush: \$2, shrub: \$2

- 2) A boat traveled 207 miles each way downstream and back. The trip downstream took 9 hours. The trip back took 23 hours. What is the speed of the boat in still water? What is the speed of the current?

boat: 16 mph, current: 7 mph

- 3) The sum of two numbers is 29. Their difference is 1. What are the numbers?

14 and 15

- 4) Jaidee and Kathryn are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Jaidee sold 6 rolls of plain wrapping paper and 5 rolls of holiday wrapping paper for a total of \$84. Kathryn sold 7 rolls of plain wrapping paper and 5 rolls of holiday wrapping paper for a total of \$88. What is the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper?

roll of plain wrapping paper: \$4, roll of holiday wrapping paper: \$12

- 5) The sum of two numbers is 27. Their difference is 3. What are the numbers?

12 and 15

- 6) The sum of the digits of a certain two-digit number is 12. When you reverse its digits you increase the number by 36. What is the number?

48

- 7) John and Daniel are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. John sold 13 bags of windflower bulbs and 2 packages of crocus bulbs for a total of \$130. Daniel sold 8 bags of windflower bulbs and 2 packages of crocus bulbs for a total of \$90. What is the cost each of one bag of windflower bulbs and one package of crocus bulbs?

bag of windflower bulbs: \$8, package of crocus bulbs: \$13

- 8) The school that Paul goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 8 adult tickets and 16 student tickets for a total of \$200. The school took in \$92 on the second day by selling 8 adult tickets and 4 student tickets. What is the price each of one adult ticket and one student ticket?

adult ticket: \$7, student ticket: \$9

- 9) When you reverse the digits in a certain two-digit number you decrease its value by 9. Find the number if the sum of its digits is 13.

76

- 10) Jose and Heather each improved their yards by planting rose bushes and ornamental grass. They bought their supplies from the same store. Jose spent \$220 on 11 rose bushes and 12 bunches of ornamental grass. Heather spent \$255 on 14 rose bushes and 13 bunches of ornamental grass. What is the cost of one rose bush and the cost of one bunch of ornamental grass?

rose bush: \$8, bunch of ornamental grass: \$11

- 11) The sum of the digits of a certain two-digit number is 6. When you reverse its digits you increase the number by 18. What is the number?

24

- 12) 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 16 vans and 12 buses with 720 students. High School B rented and filled 12 vans and 2 buses with 204 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.

Van: 9, Bus: 48

- 13) When you reverse the digits in a certain two-digit number you decrease its value by 18. Find the number if the sum of its digits is 4.

31

- 14) A boat traveled 300 miles each way downstream and back. The trip downstream took 12 hours. The trip back took 20 hours. Find the speed of the boat in still water and the speed of the current.

boat: 20 mph, current: 5 mph

- 15) Pranav and Shreya are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Pranav sold 1 small box of oranges and 16 large boxes of oranges for a total of \$279. Shreya sold 15 small boxes of oranges and 8 large boxes of oranges for a total of \$241. What is the cost each of one small box of oranges and one large box of oranges?

small box of oranges: \$7, large box of oranges: \$17

- 16) The school that Brenda goes to is selling tickets to a play. On the first day of ticket sales the school sold 9 senior citizen tickets and 14 child tickets for a total of \$198. The school took in \$79 on the second day by selling 2 senior citizen tickets and 7 child tickets. What is the price each of one senior citizen ticket and one child ticket?

senior citizen ticket: \$8, child ticket: \$9

- 17) The county 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 10 vans and 12 buses with 332 students. High School B rented and filled 13 vans and 6 buses with 230 students. Every van had the same number of students in it as did the buses. Find the number of students in each van and in each bus.

Van: 8, Bus: 21

- 18) When you reverse the digits in a certain two-digit number you decrease its value by 9. Find the number if the sum of its digits is 9.

54

- 19) The sum of the digits of a certain two-digit number is 11. When you reverse its digits you decrease the number by 63. Find the number.

92

- 20) A boat traveled 88 miles each way downstream and back. The trip downstream took 4 hours. The trip back took 22 hours. Find the speed of the boat in still water and the speed of the current.

boat: 13 mph, current: 9 mph