

Practice: Solving Word Problems w/ Sys. of Equations Date_____ Period_____

- 1) The sum of two numbers is 18. Their difference is 4. What are the numbers?
- 2) The sum of two numbers is 15. Their difference is 1. What are the numbers?
- 3) Sarawong and Jose are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Sarawong sold 12 small boxes of oranges and 7 large boxes of oranges for a total of \$114. Jose sold 10 small boxes of oranges and 7 large boxes of oranges for a total of \$102. Find the cost each of one small box of oranges and one large box of oranges.
- 4) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 4 vans and 3 buses with 124 students. High School B rented and filled 7 vans and 3 buses with 163 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.
- 5) Wilbur's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 7 adult tickets and 12 child tickets for a total of \$245. The school took in \$150 on the second day by selling 6 adult tickets and 6 child tickets. What is the price each of one adult ticket and one child ticket?
- 6) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 2 vans and 7 buses with 401 students. High School B rented and filled 10 vans and 5 buses with 415 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.
- 7) Rob's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 6 senior citizen tickets and 1 student ticket for a total of \$34. The school took in \$72 on the second day by selling 8 senior citizen tickets and 4 student tickets. What is the price each of one senior citizen ticket and one student ticket?
- 8) The school that Amy goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 7 adult tickets and 6 student tickets for a total of \$122. The school took in \$22 on the second day by selling 1 adult ticket and 2 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 9) Asanji and Kristin each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Asanji spent \$20 on 4 hostas and 2 pots of ivy. Kristin spent \$32 on 7 hostas and 3 pots of ivy. What is the cost of one hosta and the cost of one pot of ivy?
- 10) Brenda and Beth are selling pies for a school fundraiser. Customers can buy apple pies and pumpkin pies. Brenda sold 10 apple pies and 5 pumpkin pies for a total of \$120. Beth sold 11 apple pies and 4 pumpkin pies for a total of \$114. What is the cost each of one apple pie and one pumpkin pie?
- 11) Adam and Amy are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and packages of crocus bulbs. Adam sold 5 packages of tulip bulbs and 9 packages of crocus bulbs for a total of \$93. Amy sold 2 packages of tulip bulbs and 12 packages of crocus bulbs for a total of \$96. Find the cost each of one package of tulips bulbs and one package of crocus bulbs.
- 12) Mark and Krystal are selling cookie dough for a school fundraiser. Customers can buy packages of white chocolate chip cookie dough and packages of oatmeal cookie dough. Mark sold 9 packages of white chocolate chip cookie dough and 11 packages of oatmeal cookie dough for a total of \$242. Krystal sold 4 packages of white chocolate chip cookie dough and 9 packages of oatmeal cookie dough for a total of \$161. What is the cost each of one package of white chocolate chip cookie dough and one package of oatmeal cookie dough?