

## ***Systems of Equations Word Problems***

 **Solve each word problem.**

- 1) Tickets to a movie cost \$5 for adults and \$3 for students. A group of friends purchased 18 tickets for \$82.00. How many adults ticket did they buy? \_\_\_\_\_
- 2) At a store, Eva bought two shirts and five hats for \$154.00. Nicole bought three same shirts and four same hats for \$168.00. What is the price of each shirt? \_\_\_\_\_
- 3) A farmhouse shelters 10 animals, some are pigs, and some are ducks. Altogether there are 36 legs. How many pigs are there? \_\_\_\_\_
- 4) A class of 195 students went on a field trip. They took 19 vehicles, some cars and some buses. If each car holds 5 students and each bus hold 25 students, how many buses did they take? \_\_\_\_\_
- 5) A theater is selling tickets for a performance. Mr. Smith purchased 8 senior tickets and 5 child tickets for \$136 for his friends and family. Mr. Jackson purchased 4 senior tickets and 6 child tickets for \$96. What is the price of a senior ticket? \$\_\_\_\_\_
- 6) The difference of two numbers is 6. Their sum is 14. What is the bigger number? \$\_\_\_\_\_
- 7) The sum of the digits of a certain two-digit number is 7. Reversing its digits increase the number by 9. What is the number? \_\_\_\_\_
- 8) The difference of two numbers is 18. Their sum is 66. What are the numbers?  
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- 9) The length of a rectangle is 3 meters greater than 2 times the width. The perimeter of rectangle is 30 meters. What is the length of the rectangle?  
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- 10) Jim has 44 nickels and dimes totaling \$2.95. How many nickels does he have?  
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**Answers*****Systems of Equations Word Problems***

- 1) 14
- 2) \$32
- 3) 8
- 4) 5

- 5) \$12
- 6) 10
- 7) 34
- 8) 42, 24

- 9) 11 meters
- 10) 29

