

Name: _____ Period: _____ Date: _____

APPLICATION OF LINEAR SYSTEMS Bell Work

Solve the following verbal problems involving linear systems:

1. The admission fee at a Park is \$2.00 for children and \$4.00 for adults. On Saturday, 3000 people entered the Park and \$6500 was collected. How many children and how many adults attended?
2. One number is 3 less than 2 times another. If the sum of the numbers is 36, what are the numbers?
3. A student needs to prepare a solution combining a 20% alcohol solution with a 60% alcohol solution to form 200 ml of a 45% final solution. How much of each solution should be used to form the mixture?
4. Anabel has a total investment of \$7000 in two accounts. One account paying 5% interest and the other paying 8%. If the annual interest from the two investments was \$500, how much did Anabel invest in each account?
5. Peter has 20 bills which are of \$10 and \$20. If the total amount in bills is \$200, then how many of each bill Peter has?