Unit 6 Name: _____

Worksheet: Solving word problems using systems of equations (part 2). Identify your variables, set up a system of equations, and solve for your variables.

1. The cost of 5 squash and 2 zucchini is $1.32. Three squash and 1 zucchini cost $0.75. Find the cost of each vegetable.

2. Judy worked 8 hours and Ben worked 10 hours. Their combined pay was $80. When Judy worked 9 hours and Ben worked 5 hours, their combined pay was $65. Find the hourly rate of pay for each person.

3. Rob has 40 coins, all dimes and quarters, worth $7.60. How many dimes and how many quarters does he have?

4. Kelly has 24 dimes and quarters worth $3.60. How many quarters does she have?

5. The talent show committee sold a total of 530 tickets in advance. Student tickets cost $3 each and the adult tickets cost $4 each. If the total receipts were $1740, how many of each type of ticket were sold?

6. The length of a rectangle is 4cm longer than the width. The perimeter is 80 cm. Find the length and the width.

7. A collection of nickels and quarters is worth $2.85. There are 3 more nickels than quarters. How many nickels and quarters are there?

8. Ann and Betty together have $60. Ann has $9 more than twice Betty's amount. How much money does each have?

9. A bowl contained 13 red and brown M&M's. There was one more red M&M's than brown M&M's. How many of each color are in the bowl?

10. A movie theater charges $5 for an adult's ticket and $2 for a child's ticket. One Saturday, the theater sold 785 tickets for $3280. How many of each type of ticket were sold?