

## 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?