

Name: _____
Practice QUIZ

Section I
10/22/14

Directions: Solve all of the exercises below. When solving equations, SHOW ALL ALGEBRAIC STEPS. Use the L.E.S.S. method when solving all word exercises.

1) Carlos and Juanita drove a total of 258 miles in 5 hours. Carlos drove the first part of the trip and averaged 53 miles per hour. Juanita drove the remainder of the trip and averaged 51 miles per hour. For how many hours did Juanita drive?

| Driver | r | t | d |
|---------|---|---|---|
| Carlos | | | |
| Juanita | | | |

2) At 5:00 pm, two planes start from the same point and fly in opposite directions. The first plane is flying 25 mph slower than the second plane. At 7:00 pm, the planes are 470 miles apart. Find the rate of each plane.

3) A freight train transported video games from Buffalo to Albany traveling at 60 mph. Once the train got to Albany it had to transport concrete back to Buffalo. For the return trip the train traveled 50 mph. How long did it take the train to travel from Buffalo to Albany if the entire trip was 11 hours?

4) Mr. Schatzi's piggy bank has a total of 66 coins that total \$12.45. If there are only dimes and quarters in the bank, find how many of each coin are in the bank.

5) Michael Chan leaves a dock in his motorboat and travels at an average speed of 9 mph toward a particular island. Two hours later a tour boat leaves the same dock and travels at an average speed of 18 mph toward the same island. How many hours after the tour boat leaves will Michael's boat be alongside the tour boat?

6) In Katie's piggy bank, the number of dimes is three more than half the number of quarters. There are two less nickels than dimes. Find the number of each type of coin, if she has a total of \$6.20 in her bank.

- 7) The smaller of two numbers is seven less than the bigger number. Four times the lesser number is the same as six less than three times the greater number. Find the numbers
- 8) At a dinner to benefit cancer research, tickets were either \$125 each or \$200 each. If a total of 50 tickets were sold, and the dinner raised \$7375 for cancer research, how many of each ticket was sold?
- 9) While on vacation you can rent a jet ski from either SkiDoo Rentals or Water Sports Recreation. Water Sports Recreation charges \$75 for the first hour and \$40 for each additional hour, while SkiDoo Rentals charges \$90 for the first hour and \$25 per hour for each additional hour. For how many hours of rental will SkiDoo Rentals be the better option?