

FLUENCY PRACTICE: Substitution Word Problems

Name: _____

Period: _____

Directions: Identify both variables, set-up both equations, then use substitution to solve the word problems, and then answer the question in a complete sentence. **Show all work!!!**

1. Mark is twice as old plus 3 years as his sister Tina. Together their ages add up to 27. How old are Mark and Tina?
2. One week, Michelle earned \$35 more than she earned the next week. She earned a total of \$677 for both weeks. How much money did she earn each week?
3. John and Lois traveled to her brother's house, which was 456 miles away. On the way there John drove twice as much as Lois minus 45 miles. How far did each of them drive?
4. Bonnie scored 4 more points in the 1st basketball than in the 2nd basketball game. She scored a total of 28 points in both games. How many points did she score in each game?
5. Tony orders supplies for his business. One day he ordered pens and pencils. He ordered 12 more boxes of pens than he did pencils. The pens were \$2.00 a box and the pencils were \$1.00 a box. The total bill for all the pens and pencils was \$54.00. How many boxes of each did he order?

6. The J-T Ranch raises 2 kinds of cattle: Longhorn and Angus. They have 3 times minus 40 as many Longhorns as Angus. Altogether the ranch has 760 head of cattle. How many of each type of cattle does the ranch have?

7. Michael owns a coffee stand at a local college campus. One day he served 51 more large cups of coffee than he served the small cups. He made \$414 by charging \$1.50 for the small cup of coffee and \$3 for a large cup of coffee. How many of each did he serve?

8. One week, Bobbie worked twice as many hours plus 2 as a legal aid clerk than as a receptionist. She gets paid \$8 an hour as a receptionist and \$14 an hour as a legal aid clerk. During that week she made \$460. How many hours did she work as each job that week?