

Algebra I Worksheet #6 Unit 3 page 1 _____

Solve each of the following problems algebraically (one variable solution). Show your work neatly organized.

1. The sum of three consecutive whole numbers is 78. What are the whole numbers?
2. The sum of three consecutive even whole numbers is 222. What are the whole numbers?
3. The sum of three consecutive odd whole numbers is 123. What are the whole numbers?
4. Tom has twice as many marbles as Sam. Joe has five fewer marbles than Sam. The three boys together have 71 marbles. How many marbles does each boy have?
5. A burger costs 19¢ more than a hot-dog. Five burgers and three hot-dogs cost a total of \$5.75. How much does each item cost?

Algebra I Worksheet #6 Unit 3 page 2

Solve each of the following problems algebraically (one variable solution). Show your work neatly organized.

6. Ann and Mark drive toward each other from places that are 300 miles apart. Ann averages 35 miles per hour, while Mark averages 40 miles per hour. If they both start driving at 1:00 PM, then at what time will they meet?

7. Sarah and Jane drive toward each other from places that are 211 miles apart. Sarah averages 36 miles per hour and starts driving at 9:00 AM. Jane averages 34 miles per hour and starts driving at 10:00 AM. At what time will they meet?

8. At 10:30 AM, train A and train B are 600 miles apart and are traveling toward each other on parallel tracks. If train A averages 45 mph and train B averages 30 mph, then at what time will they meet?