

Problem Solving #3

1. A dollar was changed into 16 coins consisting of just nickels and dimes. How many coins of each kind were in the change?
2. A number has a remainder of 1 when divided by 4, a remainder of 2 when divided by 5, and a remainder of 3 when divided by 6, what is the smallest number that has the above properties?
3. Consecutive numbers are whole numbers that follow in order such as 7, 8, 9, 10, 11, and 12. Find three consecutive numbers such that the sum of the first and third is 118.
4. When Anne, Betty and Cynthia compared the amount of money each had, they discovered that Anne and Betty together had \$12. Betty and Cynthia together had \$18. Anne and Cynthia together had \$10. Who had the least amount of money, and how much was it?
5. A total of fifteen pennies are put into four piles so that each pile has a different number of pennies. What is the smallest possible number of pennies that could be in the largest pile?

1. In a math contest of 10 problems, 5 points was given for each correct answer and 2 points was deducted for each incorrect answer. If Nancy answered all 10 problems and scored 29 points, how many correct answer did she have?
2. A train can hold 78 passengers. The train starts out empty and picks up 1 passenger at the first stop, 2 passengers at the second stop, 3 passengers at the third stop, and so forth. After how many stop will the train be full?
3. The number of toonies I need to pay for a purchase is 9 more than the number of five-dollar bills I need to pay for the same purchase. What is the cost of the purchase?
4. If 24 litres of water are poured into an empty tank, then $\frac{3}{4}$ of the tank is filled. How many litres does a full tank hold?
5. The age of a man is the same as his wife's age with the digits reversed. The sum of their ages is 99 and the man is 9 years older than his wife. How old is the man?