



## Problem Solving Word problems

1. Tom has a lucky number between 1-100.
  - His number is a multiple of 5
  - His number is also a multiple of 3
  - His number is odd and near the middle of the number square
  - If you multiply the digits the answer is even
  - If you add the digits together the answer is odd
2. A cage contains birds and rabbits. There are 16 heads and 38 legs. The only animals in the cage are birds and rabbits. How many birds are there and how many rabbits in the cage?
3. Find the smallest multiple of nine containing **only even** digits.
4. Jenny bought 7 t-shirts, one for her seven brothers, for 9.95 each. The cashier charged her an additional £13.07 in sales tax. She left the store with a measly £7.28. How much did Jenny start with?
5. Mary has £50. She goes to the mall and buys a lipstick and then she buys shampoo, which is half of the price of the lipstick. She then spends half of what she has left on a purse, leaving her with £15. How much did the shampoo cost? How much did the lipstick cost?
6. Marvin's Taxi Service charges £0.30 for the first kilometre and £0.05 for each additional km. If the cab fare was £3.20, how far did the Taxi go?
7. A boy ate 100 cookies in five days. Each day he ate 6 more than the day before. How many cookies did he eat on the first day?
8. Sarah started school at the age of five. She spent one quarter of her life being educated, and went straight into work. After working for one half of her life, she lived for fourteen happy years after retiring. How old was she when she retired?
9. At a birthday party, one half drank only lemonade, one-third drank only cola, fifteen people drank neither, and nobody drinks both. How many people were at the party?
10. Science last for 55 minutes and ends at 3.30pm. At what time does Science start?