**Science and Arithmetic Questions**

1. What connects these three Physics Nobel Laureates and a chemistry winner other than that they are all American ?

Leon Cooper 1972; Steven Weinberg 1979; Mel Schwartz 1988, and chemist Robert Lefkowitz 2012

1. These 16 elements can be grouped into four sets of four. Can you define the groups and allocate the elements to them ?

*Beryllium(Be) ; Frankium(Fr); Gallium(Ga); Germanium(Ge); Gold(Au); Helium(He) ; iron(Fe); Lead(Pb)\_; Mercury(Hg); Neon(Ne); Potassium(K) ; Plutonium(Pu); Scandium(Sc); Silver(Ag); Uranium(Ag); Xenon*(Xe).

1. Here are four British Nobel prize winners.

Paul Dirac, Neville Mott, John Kendrew, Peter Higgs.

*They all grew up in the same city and went to two high schools, two to each.*

*Can you name the city, the schools and who went to which one.l*

1. Using the number 4 four times and standard arithmetic symbols + - \* and / we can form integers e.g 1 = 4/4, 2 = 4/4 + 4/4, etc

Can you find solutions for the following integers?

3

4

5

7

15

43