## [Infosys Sample Siblings Puzzles](http://www.careersvalley.com/infosys-sample-siblings-puzzles" \o "Infosys Sample Siblings Puzzles)

**Question 1** In a family there are several brothers and sisters. Every 2 boys have brothers as many as sisters and each girl has 2 brothers less than twice as many brothers as sisters. Now find the number of boys and girls.

a)6,8 b)8,6 c)12,10 d)6,4

**Answer :** b)8,6

Solution:

Let b be the number of brothers and s be the number of sisters in the family.

Consider any two boys. They would be having b - 2 brothers (excluding the two). But this number is equal to the number of sisters they have.  
Therefore,  
b - 2 = s  
or b - s = 2 ----- (1)

Each girl will have s - 1 sisters. Twice the number of sisters = 2(s - 1).  
Since each girl has twice as many brothers as sisters, we have, 2(s-1)-2 = b  
2s - 4 = b ---- (2).  
Sub b = 2s - 4 in eq 1, we get  
2s - 4 - s = 2  
s = 6

Sub s in eq 1 we get,  
b - 6 = 2  
b = 8

**Question 2** Suppose your daughter has brothers as many as sisters and twice the number of your sons is same as the number of daughters. How many kids you have?  
a) 5 b)6 c)3 d)4

**Answer :** c)3

Solution:

Let g be the number of daughters and b be the number of sons.  
Every daughter will have g-1 sisters. (i.e for example, if there are 5 daughter, every daughter will have 5-1=4 sisters.)

since every daughter has equal number of brothers and sisters then b = g - 1 ...(1)  
and twice the number of your sons is same as the number of daughters. Then 2b = g ...(2)

Substituting b = g - 1 in eq 2, we get

2(g - 1) = g  
2g - 2 = g  
g = 2

Substituting g = 2, in eq 1,we get,

b = 2 - 1 = 1

Therefore you have 2 daughters and 1 son which totals to 3 kids.  
Hence the answer is 3.

**Question 3** Each of Geetha's brothers have brothers as many as Leena's and Leena has sisters as many as her brothers. Then the sum of the boys in Geetha's family and girls in Leena's family will be  
a)6 b)15 c)13 d)9

**Answer :** a)6

Solution:

Let A be the number of boys in Geetha's family.  
let B be the number of girls in Geetha's family.  
let C be the number of boys in Leena's family.  
let D be the number of girls in Leena's family.

We have to find the value of A + D.

Since A number of boys are in Geetha's family, every brother will have A - 1 brother.

Since each of Geetha's brothers and Leena have equal number of brothers then A - 1 = C ------(1)  
Since Leena has equal number of brothers and sisters, D - 1 = C -----(2)  
Sub C = D - 1 in eq 1,we get  
A - 1 = D - 1  
A = D  
we know the fact that addition of two equal numbers must be an even number.  
among the given options 6 is the only even number.  
hence the answer is 6.