1. Mary is a years old. Her brother John is 8 years younger than her. How many times is Mary older than her brother?

2. Find the value of the expression for given values of variables:

   a. $a + 52$; $if\ a = 0;\ 18;\ 49;$

   b. $9 - b : 9$; $if\ b = 0;\ 8;\ 810;$

   c. $c \cdot (25 - c)$; $if\ c = 16;\ 24;\ 25;$

   d. $240 : d - 4 \cdot (m + n)$; $if\ d = 1, m = 15;\ n = 5;$

3. Solve the equations:

   a. $55 - 8x = 7;$ b. $6 \cdot (18 - k) = 54;$ c. $(60a - 30) : 5 = 18$

4. Mouse and bird (toys) together cost 8 dollars. 2 mice and 4 birds cost 26 dollars. How much does a mouse and a bird cost separately? Write an equation and solve the problem. Solve the problem without formally writing out the equation

5. Fill the empty spaces:

   Example: $8 + (-5) = 3$

   a. $8 + \ldots = 5;$ b. $15 + \ldots = 0;$ c. $(-4) + \ldots = -6;$

   d. $(-1) + \ldots = -1;$ d. $(-1) + \ldots = -1;$ e. $(-10) + \ldots = -5;$

   f. $8 - \ldots = 12;$ g. $-4 - \ldots = 4;$ h. $6 - \ldots = -2$