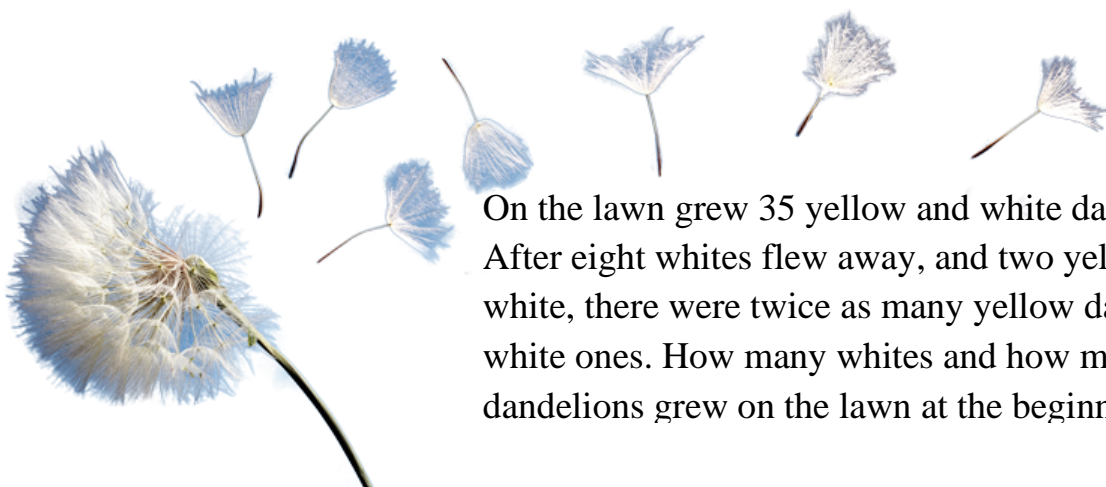


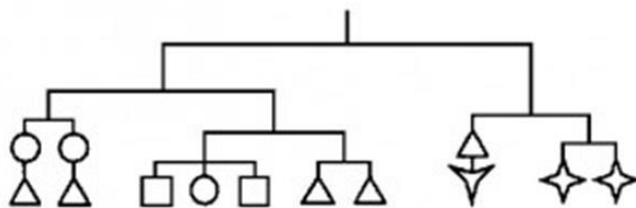
Homework 19.

1.



On the lawn grew 35 yellow and white dandelions. After eight whites flew away, and two yellows turned white, there were twice as many yellow dandelions as white ones. How many whites and how many yellow dandelions grew on the lawn at the beginning?

2. Mary is a years old. Her brother John is 8 years younger than her. How many times is Mary older than her brother?
3. 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 $d = 1, m = 15; n = 5$;
4. Solve the equations:
 - a. $55 - 8x = 7$;
 - b. $6 \cdot (18 - k) = 54$;
 - c. $(60a - 30) : 5 = 18$
5. On the picture below, every arm of the balance is in equilibrium. (The horizontal bars are suspended at their midpoints.) Identical shapes have identical masses. The mass of the square is 1 kg. What are the masses of the other shapes?



6. Fill the empty spaces:

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

a. $8 + \dots = 5;$

b. $15 + \dots = 0;$

c. $(-4) + \dots = -6;$

d. $(-1) + \dots = -1;$

d. $(-1) + \dots = -1;$

e. $(-10) + \dots = -5;$

f. $8 - \dots = 12;$

g. $-4 - \dots = 4;$

h. $6 - \dots = -2$

