

OLIMPIADA DE MATEMATICĂ
FAZA LOCALĂ-28.02.2015
Clasa a IV-a
Barem de corectare

SUBIECTUL I

$$\begin{aligned}a &= (73 \times 9 - 318 - 777 : 3) + 796 - 63 \times 10 \\&= (657 - 318 - 259) + 796 - 630 \\&= (339 - 259) + 796 - 630 \\&= 80 + 796 - 630 \\&= 876 - 630 \\&= 246\end{aligned}$$

7 x 0,4p = 2,8 p

$$a = 246$$

$$\begin{aligned}6 - 5 : [4 - 3 : (2 - 2 : b)] &= 1 \\5 : [4 - 3 : (2 - 2 : b)] &= 6 - 1 \\5 : [4 - 3 : (2 - 2 : b)] &= 5 \\4 - 3 : (2 - 2 : b) &= 5 : 5 \\4 - 3 : (2 - 2 : b) &= 1 \\3 : (2 - 2 : b) &= 4 - 1 \\3 : (2 - 2 : b) &= 3 \\2 - 2 : b &= 3 : 3 \\2 - 2 : b &= 1 \\2 : b &= 2 - 1 \\2 : b &= 1 \\b &= 2 : 1 \\b &= 2\end{aligned}$$

6 x 0,5p = 3 p

$$b = 2$$

$$(246 \times 2) - (246 + 2) = 492 - 248 = 244$$

3 x 0,4p = 1,2 p

$$R: 244$$

Total: 7 P

1.Reprezentare grafică:

2 p

1 p

0,5p

$$1 + 1 + 2 = 4$$

1 p

1 p

1 p

$$18 + 8 = 26 \text{ (lei)}$$

0,5 p

$18 \times 2 - 4 = 32$ (lei) sau $18 + 26 - 12 = 32$ (lei)

Total: 7 P

0,5 p

SUBIECTUL III

Valorile celor trei factori:

I.	a - 5	b + 2	c - 1			
	1	4	3	a = 6, b = 2, c = 4	$\overline{abc} = 624$	1 p
	4	3	1	a = 9, b = 1, c = 2	$\overline{abc} = 912$	1 p
	3	4	1	a = 8, b = 2, c = 2	$\overline{abc} = 822$	1 p
II.	1	3	4	a = 6, b = 1, c = 5	$\overline{abc} = 615$	1 p
	2	6	1	a = 7, b = 4, c = 2	$\overline{abc} = 742$	1 p
	1	6	2	a = 6, b = 4, c = 3	$\overline{abc} = 643$	1 p
	1	2	6	a = 6, b = 0, c = 7	$\overline{abc} = 607$	1 p

R : 624, 912, 822, 615, 742, 643, 607;

Total: 7 P