

BAREM DE NOTARE ȘI CORECTARE

Clasa a V-a

Partea I

1. b); 2.b);3. b; 4. c); 5. d)

Partea a II-a

Problema 1

1. $2013(a+b+c)=12078$7p
2. $a+b+c=6$7p
3. $a=1$,2p
4. $b=2$2p
5. $c=3$2p

Problema 2

1. $\underbrace{99 \dots 9}_{2009 \text{ cifre}} = 10^{2009} - 1$3p
2. $(10^{2009} - 1) \cdot n = n10^{2009} - n =$3p
3. $\overline{a_1 a_2 \dots a_{2009} \underbrace{00 \dots 0}_{2009 \text{ cifre}}} - \overline{a_1 a_2 \dots a_{2009}}$4p
4. $(10 - a_{2009}) + (9 - a_{2008}) + \dots + (9 - a_2) + (9 - a_1) + (a_{2009} - 1) + a_{2008} + \dots + a_1 =$5p
5. $10 + 9 \cdot 2008 - 1 = 9 \cdot 2009$5p