

Fisă pentru portofoliul individual
= A5 =

1. a) $\frac{74}{10} = 7,4$

R: C. 7,4

b) $a = 1,234$, $b = 0,567$, $c = 1,8$

\downarrow 1,8 ; 1,234 ; 0,567

c ; a ; b $\Rightarrow c > a > b$

R: Δ . $c > a > b$

c) $2,58 + 13,9 = 16,48$

R: B. 16,48

d) $5,023 = \frac{5023}{1000}$

R: A. $\frac{5023}{1000}$

2. a) $a = 17,25$ | $\Rightarrow 17,6 > 17,25 \Rightarrow b > a$
 $b = 17,6$

R: $b = 17,6$

b) $0,35 - 0,278 = 0,072$

R: 0,072

c) $\overline{3,7b} = 3 + \frac{a}{10} + \frac{b}{100}$; $a + b = ?$

$3 + \frac{7}{10} + \frac{b}{100} = 3 + \frac{a}{10} + \frac{4}{100} \Rightarrow a = 7$ și $b = 4$

$a + b = 7 + 4 = 11$

R: 11

d) 281, 456

R: 5

	<u>A</u>		<u>B</u>
3. a)	$7,2 - 1,51 + 2,7 = 8,39$	→	1) 8,39
b)	$7,2 + 1,51 - 2,7 = 6,01$	→	2) 2,99
c)	$7,2 - 1,51 - 2,7 = 2,99$	→	3) 10,59
d)	$7,2 + 1,51 + 2,7 = 11,41$	→	4) 6,01
			5) 11,41

R: a) → 1)
b) → 4)
c) → 2)
d) → 5)

4. $\overline{a, bc} - \overline{c, ab} = 1,89$; $\overline{atrc} = ?$

$$\overline{a, bc} - \overline{c, ab} = 1,89 \Leftrightarrow \frac{\overline{atrc}}{100} - \frac{\overline{catb}}{100} = \frac{189}{100} \Leftrightarrow$$

$$\Leftrightarrow \overline{atrc} - \overline{catb} = 189 \Leftrightarrow a \cdot 100 + b \cdot 10 + c - c \cdot 100 - a \cdot 10 - b = 189 \Leftrightarrow 100a + 10b + c - 100c - 10a - b = 189 \Leftrightarrow$$

$$\Leftrightarrow 90a + 9b - 99c = 189 \Leftrightarrow 9(10a + b - 11c) = 189 \Leftrightarrow$$

$$\Leftrightarrow 10a + b - 11c = 189 : 9 \Leftrightarrow 10a + b - 11c = 21 \Leftrightarrow$$

$$\Leftrightarrow 10a + b - 10c - c = 21 \Rightarrow \boxed{a - c = 2}$$
$$b - c = 1 \Rightarrow \boxed{b = 1 + c}$$

Dacă $a - c = 2 \Rightarrow a = 2, c = 0, b = 1 + 0 = 1$.

Verificam: $\overline{2, 10} - \overline{0, 21} = 1,89$

$$\Rightarrow a = 3, c = 1, b = 1 + 1 = 2$$

Verif: $\overline{3, 21} - \overline{1, 32}$

$$\Rightarrow a = 4, c = 2, b = 3$$

Verif: $\overline{4, 32} - \overline{2, 43} = 1,89$

$$\Rightarrow a=5, c=3, b=4$$

$$\Rightarrow a=6, c=4, b=5$$

$$\Rightarrow a=7, c=5, b=6$$

$$\Rightarrow a=8, c=6, b=7$$

$$\Rightarrow a=9, c=7, b=8$$

Numerele naturale de forma \overline{abc} : 210; 321; 432;
543; 654; 765; 876; 987.

$$5. \quad \overline{0,ab} \quad ; \quad 0,6 < \overline{0,ab} \leq 0,83$$

$$\begin{aligned} \overline{0,ab} = & 0,61; 0,62; 0,63; 0,64; 0,65; 0,66; 0,67; 0,68; \\ & 0,69; 0,70; 0,71; 0,72; 0,73; 0,74; 0,75; \\ & 0,76; 0,77; 0,78; 0,79; 0,80; 0,81; 0,82; 0,83 \end{aligned}$$

$$\begin{aligned} S &= 0,61 + 0,62 + \dots + 0,83 = \frac{61}{100} + \frac{62}{100} + \dots + \frac{83}{100} = \\ &= \frac{61+62+\dots+83}{100} = \frac{23 \cdot (61+83)}{2 \cdot 100} = \frac{23 \cdot 144}{2 \cdot 100} = \frac{23 \cdot 72}{100} = \end{aligned}$$

$$83 - 61 + 1 = 22 + 1 = 23 \text{ de numere} \quad = \frac{1656}{100} = \boxed{16,56}$$

• S-a aplicat suma lui Gauss:

$$1+2+3+\dots+n = \frac{n(n+1)}{2}$$