

VI. ORDINEA EFECTUĂRII OPERATIILOR  
ȘI FOLOSIREA PARANTEZELOR ROTUNDE ȘI  
PĂTRATE

1. Rezolvă, respectând ordinea efectuării operațiilor:

$$\begin{aligned}4854 - 1022 \times 3 - 123 : 3 &= \\ &= 4854 - 3066 - 41 = \\ &= 1788 - 41 = \\ &= 1747\end{aligned}$$

$$\begin{aligned}6050 : 5 \times 2 - 4204 : 4 - 1023 &= \\ &= 1210 \times 2 - 1051 - 1023 = \\ &= 2420 - 1051 - 1023 = \\ &= 1369 - 1023 = \\ &= 346\end{aligned}$$

$$\begin{aligned}4702 \times 2 - 1680 : 7 \times 2 + 1267 &= \\ &= 9404 - 240 \times 2 + 1267 = \\ &= 9404 - 480 + 1267 = \\ &= 8924 + 1267 = \\ &= 10191\end{aligned}$$

$$\begin{aligned}6390 : 9 \times 2 - 1503 : 3 + 128 : 4 &= \\ &= 710 \times 2 - 501 + 32 = \\ &= 1420 - 501 + 32 = \\ &= 919 + 32 = \\ &= 951\end{aligned}$$

2. Efektua:  $\bar{a}$

$$\begin{aligned}5 \times 1206 - 2 \times 1023 + 1790 \times 3 &= \\= 6030 - 2046 + 5370 &= \\= 3984 + 5370 &= \\= 9354 &= \end{aligned}$$

$$\begin{aligned}6 \times 283 : 3 + 136 : 8 - 140 \times 2 : 7 &= \\= 1698 : 3 + 17 - 280 : 7 &= \\= 566 + 17 - 40 &= \\= 583 - 40 &= \\= 543 &= \end{aligned}$$

$$\begin{aligned}2 \times 3620 : 4 - 135 : 5 \times 2 &= \\= 7240 : 4 - 27 \times 2 &= \\= 1810 - 54 &= \\= 1756 &= \end{aligned}$$

$$\begin{aligned}615 : 3 + 123 \times 2 : 3 - 124 &= \\= 205 + 246 : 3 - 124 &= \\= 205 + 82 - 124 &= \\= 287 - 124 &= \\= 163 &= \end{aligned}$$

3. Calcula:  $\bar{a}$

$$\begin{aligned}2 \times 2302 - (1240 : 4 \times 3) : 3 + 124 &= \\= 4604 - (310 \times 3) : 3 + 124 &= \\= 4604 - 930 : 3 + 124 &= \\= 4604 - 310 + 124 &= \\= 4294 + 124 &= \\= 4418 &= \end{aligned}$$

$$\begin{aligned}
 & (5194 - 3274) \times 2 + 140 : (987 - 985) = \\
 & = 1920 \times 2 + 140 : 2 = \\
 & = 3840 + 70 = \\
 & = 3910
 \end{aligned}$$

$$\begin{aligned}
 & 9090 : 3 + 12 \times (785 : 5 + 152) + 12 \times 15 = \\
 & = 3030 + 12 \times (157 + 152) + 180 = \\
 & = 3030 + 12 \times 309 + 180 = \\
 & = 3030 + 3708 + 180 = \\
 & = 6738 + 180 = \\
 & = 6918
 \end{aligned}$$

$$\begin{aligned}
 & 772 : 4 + 16 \times (128 - 126 : 9) = \\
 & = 193 + 16 \times (128 - 14) = \\
 & = 193 + 16 \times 114 = \\
 & = 193 + 1824 = \\
 & = 2017
 \end{aligned}$$

4. Efectuaza:

$$\begin{aligned}
 & 2 \times [(1782 : 2 - 314 \times 2) \times 5 + 4 \times (1360 - 1136 : 8)] = \\
 & = 2 \times [(891 - 628) \times 5 + 4 \times (1360 - 142)] = \\
 & = 2 \times (263 \times 5 + 4 \times 1218) = \\
 & = 2 \times (1315 + 4872) = \\
 & = 2 \times 6187 = 12374
 \end{aligned}$$

$$\begin{aligned}
 & [(2 \times 50 + 125) : 15 + 476 : (282 - 530 : 2)] \times 3 = \\
 & = [(100 + 125) : 15 + 476 : (282 - 265)] \times 3 = \\
 & = (225 : 15 + 476 : 17) \times 3 = \\
 & = (15 + 28) \times 3 = \\
 & = 43 \times 3 = \\
 & = 129
 \end{aligned}$$

5. Verifică egalitățile:

$$2 \times [624 : 4 - (56 \times 2 + 39)] = 132 : 2 + (674 - 522 : 2) \times 0$$

$$2 \times [156 - (112 + 39)] = 66 + 0$$

$$2 \times (156 - 151) = 66$$

$$2 \times 5 = 66$$

$$10 = 66 \quad (\neq)$$

(Orice număr înmulțit  
cu zero ne dă tot  
zero)

$$5 \times [3 \times (14 + 15 \times 3) - (5 \times 118) : 5] = (824 : 4 + 9) \times 3 - 451$$

$$5 \times [3 \times (14 + 45) - 590 : 5] = (206 + 9) \times 3 - 451$$

$$5 \times (3 \times 59 - 118) = 215 \times 3 - 451$$

$$5 \times (177 - 118) = 645 - 451$$

$$5 \times 59 = 194$$

$$295 = 194 \quad (\neq)$$

6. Se dau numerele:  $a=214$ ,  $b=2$ ,  $c=325$ . Să se afle:

$$a) a \times b + c - b \times [(a + b \times c) - (a + c)] : 5 =$$

$$= 214 \times 2 + 325 - 2 \times [(214 + 2 \times 325) - (214 + 325)] : 5 =$$

$$= 428 + 325 - 2 \times [(214 + 650) - 539] : 5 =$$

$$= 753 - 2 \times (864 - 539) : 5 =$$

$$= 753 - 2 \times 325 : 5 =$$

$$= 753 - 650 : 5 =$$

$$= 753 - 130 =$$

$$= 623$$

$$b) c + b \times a + b \times [(c - a) \times b - a] =$$

$$= 325 + 2 \times 214 + 2 \times [(325 - 214) \times 2 - 214] =$$

$$= 325 + 428 + 2 \times (111 \times 2 - 214) =$$

$$= 753 + 2 \times (222 - 214) =$$

$$= 753 + 2 \times 8 = 753 + 16 =$$

$$= 769$$

7. Serie parantezale pentru a indica ordinea operatiilor:

$$\begin{aligned}5100 + (241 \times 12) &= \\ &= 5100 + 2892 = \\ &= 7992\end{aligned}$$

$$\begin{aligned}7460 - (145 \times 3) &= \\ &= 7460 - 435 = \\ &= 7025\end{aligned}$$

$$\begin{aligned}(1230 : 3) + (4514 \times 2) &= \\ &= 410 + 2257 = \\ &= 2667\end{aligned}$$

$$\begin{aligned}6800 - (259 \times 14) &= \\ &= 6800 - 3626 = \\ &= 3174\end{aligned}$$

$$\begin{aligned}(1245 \times 3) + 320 &= \\ &= 3735 + 320 = \\ &= 4055\end{aligned}$$

$$\begin{aligned}(3605 \times 2) - (730 : 5) &= \\ &= 7210 - 146 = \\ &= 7064\end{aligned}$$

## 8. Calculați

$$94 \times 47 - (38 \times 56 - 1252) = 4418 - (2128 - 1252) =$$

$$= 4418 - 876 = 3542$$

$$214 \times 25 - (25 \times 38 - 786) = 5350 - (950 - 786) =$$

$$= 5350 - 164 = 5186$$

$$(2973 : 3 + 125 \times 12) + 324 \times 5 = (991 + 1500) + 1620 =$$

$$= 2491 + 1620 = 4111$$

$$[(48600 : 100 + 512) - 768 : 2] + 17852 = [(486 + 512) -$$

$$- 384] + 17852 = (998 - 384) + 17852 =$$

$$= 614 + 17852 = 18466$$

## 9. Calculează, respectând ordinea efectuării operațiilor:

a)  $327 + 146 + 3027 - 543 - 1472 + 615 =$

$$= 473 + 3027 - 543 - 1472 + 615 =$$

$$= 3500 - 543 - 1472 + 615 =$$

$$= 2957 - 1472 + 615 =$$

$$= 1485 + 615 =$$

$$= 2100$$

b)  $1210 - 936 - 136 + 2536 - 877 + 952 - 400 =$

$$= 274 - 136 + 2536 - 877 + 952 - 400 =$$

$$= 138 + 2536 - 877 + 952 - 400 =$$

$$= 2674 - 877 + 952 - 400 =$$

$$= 1797 + 952 - 400 =$$

$$= 2749 - 400 =$$

$$= 2349$$