

Operace $\cdot, : \vee$
 nedesítkové soustavy

PRÍKLADY K
 PROCVIČENÍ

$$\begin{array}{r} \textcircled{1} \quad 92_{12} \\ \cdot 35_{12} \\ \hline 39A_{12} \\ 236_{12} \\ \hline \underline{\underline{273A_{12}}} \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 107_{12} \\ \cdot 48_{12} \\ \hline 848_{12} \\ 424_{12} \\ \hline \underline{\underline{4A88_{12}}} \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad 4B06_{12} \\ \cdot 306 \\ \hline \text{zbytek: } 3A_{12} \end{array}$$

$$48_{12} = \underline{\underline{107_{12}}}$$

$$4B_{12} = 4 \cdot 12 + 11 = 59_{10}$$

$$59 : 56 = 1 (\text{zb. } 3)$$

$$48_{12} = 4 \cdot 12 + 8 = 56_{10}$$

$$306_{12} = 3 \cdot 12^2 + 6 = 3 \cdot 144 + 6 = 438_{10}$$

$$4B06_{12} : 48_{12} = \underline{\underline{107_{12}}} \text{ (zb. } 3A_{12})$$

$$438 : 56 = 7 \text{ (zb. } 46_{10})$$

$$46_{10} = 3A$$

zkouška :

$$\begin{array}{r} 107_{12} \\ \cdot 48_{12} \\ \hline 4A88_{12} \end{array}$$

Viz příklad $\textcircled{2}$

$$4A88_{12}$$

$$4A88_{12}$$

+ $3A_{12}$ zbytek

$$\underline{\underline{4B06_{12}}}$$

$$\begin{array}{r} \textcircled{4} \quad 718_{12} \\ \cdot 328_{12} \\ \hline \text{zb: } 35_{12} \end{array}$$

$$3B_{12} = \underline{\underline{19_{12}}}$$

$$71_{12} = 7 \cdot 12 + 1 = 85_{10}$$

$$85 : 47 = 1 \text{ (zb. } 38)$$

$$3B_{12} = 3 \cdot 12 + 11 = 47_{10}$$

$$38 = 32_{12} \text{ zbytek}$$

$$328_{12} = 3 \cdot 12^2 + 2 \cdot 12 + 8 =$$

$$= 3 \cdot 144 + 24 + 8 = 432 + 32 = 464_{10}$$

$$718_{12} : 3B_{12} = \underline{\underline{19_{12}}} \text{ (zb. } 35_{12})$$

$$464_{10} : 47_{10} = 9 \text{ (zb. } 41)$$

zkouška :

$$6A3$$

+ 35 zbytek

$$2B3$$

$$3B$$

$$\underline{\underline{6A3}}$$

$$\underline{\underline{718_{12}}}$$

$$\text{zbytek: } 41_{10} = 35_{12}$$

Číselné soustavy – početní výkony

1. $534042_6 + 343445_6 = 1321531_6$
2. $1011011_2 - 11001_2 = 1000010_2$
3. $2330_4 - 103_4 = 2221_4$
4. $42110_5 - 2103_5 = 40002_5$
5. $534042_6 - 343445_6 = 150153_6$
6. $1011011_2 \cdot 11001_2 = 100011100011_2$
7. $2330_4 \cdot 103_4 = 313310_4$
8. $42110_5 \cdot 2103_5 = 144212330_5$
9. $4504_6 \cdot 121_6 = 1033424_6$
10. $212011_3 : 2_3 = 102120_3$ (zb. 1)
11. $2330_4 : 3_4 = 332_4$ (zb. 2)
12. $40432_5 : 3_5 = 11442_5$ (zb. 1)
13. $12345013_6 : 5_6 = 1421001_6$ (zb. 4)