

Matematické

...MINUTOVKA

pro vzdělávací oblast Matematika a její aplikace dle RVP ZV

2. ročník / 2. díl

1. Sčítání a odčítání v oboru do 100
2. Násobení a dělení v oboru násobilky
3. Procvičování a opakování



Důležitou součástí matematiky na základní škole je pamětné počítání. Aby měly všechny děti možnost získat v něm potřebnou jistotu a zběhlost, doplnili jsme na základě požadavků učitelů učebnici Matematika a její aplikace pro 2. ročník Matematickými ...minutovkami. 128 cvičení rozdělených do dvou sešitů je zaměřeno na důkladné nacvičení pamětného počítání, sčítání, odčítání, násobení a dělení v číselném oboru do 100 v přímé vazbě na výše uvedenou učebnici matematiky.

Milé žákyně, milí žáci.

Abychom vám počítání zpestřili, připravili jsme také na druhé pololetí do vašich pracovních ...minutovek soutěž. Pravidla jsou stejná jako v prvním sešitku. V rohu každého listu je obrázek. Může si jej vystříhnout ten, kdo při řešení příkladů na daném listu neudělal ani jednu chybu nebo udělal chyb nejméně ze třídy. (Výpočty vám zkontroluje vyučující.) Vystřížený obrázek pak řešitel nalepí na volné políčko do soutěžní karty (na konci sešitu). Kdo bude mít na konci školního roku nejvíce políček přelepených, je vítězem soutěže ve druhém pololetí.

Autoři

Obsah:

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1. Sčítání a odčítání v oboru do 100

M 2/2, str. 4 – 22

1



1 Dopln tabulky podle vzoru.

a

	9	19	29	39	49	59	69	79	89
+	7	3	4	8	7	8	6	9	5
	$\begin{array}{ c c } \hline 1 & 6 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 2 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 3 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 7 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 6 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 7 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 5 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 8 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 4 \\ \hline \end{array}$
=	16	22	33	47	56	67	75	88	94

b

	28	58	18	78	8	68	38	88	48
+	4	3	6	5	8	7	9	7	6
	$\begin{array}{ c c } \hline 1 & 3 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 2 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 5 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 4 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 7 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 6 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 8 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & 6 \\ \hline \end{array}$	$\begin{array}{ c c } \hline 1 & \checkmark \\ \hline \end{array}$
=	32	61	24	83	16	75	47	95	54

2 Zopakuj si.

a	b	c	d
$8 + 3 = \underline{11}$	$7 + 5 = \underline{12}$	$7 + 6 = \underline{13}$	$9 + 9 = \underline{18}$
$7 + 4 = \underline{11}$	$8 + 4 = \underline{12}$	$8 + 0 = \underline{8}$	$7 + 7 = \underline{14}$
$6 + 9 = \underline{15}$	$3 + 9 = \underline{12}$	$9 + 8 = \underline{17}$	$4 + 7 = \underline{11}$
$5 + 6 = \underline{11}$	$9 + 7 = \underline{16}$	$8 + 5 = \underline{13}$	$8 + 6 = \underline{14}$
$9 + 6 = \underline{15}$	$4 + 9 = \underline{13}$	$7 + 8 = \underline{15}$	$6 + 0 = \underline{6}$
$3 + 8 = \underline{11}$	$7 + 9 = \underline{16}$	$4 + 8 = \underline{12}$	$2 + 9 = \underline{11}$
$9 + 5 = \underline{14}$	$5 + 7 = \underline{12}$	$8 + 7 = \underline{15}$	$5 + 9 = \underline{14}$
$0 + 7 = \underline{7}$	$9 + 4 = \underline{13}$	$5 + 8 = \underline{13}$	$6 + 5 = \underline{11}$
$6 + 8 = \underline{14}$	$8 + 8 = \underline{16}$	$9 + 3 = \underline{12}$	$9 + 2 = \underline{11}$
$8 + 9 = \underline{17}$	$6 + 6 = \underline{12}$	$6 + 7 = \underline{13}$	$10 + 4 = \underline{14}$

3 Počítej a zapisuj podle vzoru.

$$26 + 9 = 35$$

$$26 + \begin{array}{|c|} \hline 4 \\ \hline \end{array} + \begin{array}{|c|} \hline 5 \\ \hline \end{array} = 35$$

$$14 + 7 = 21$$

$$14 + \begin{array}{|c|} \hline 6 \\ \hline \end{array} + \begin{array}{|c|} \hline 1 \\ \hline \end{array} = 21$$

$$33 + 9 = 42$$

$$33 + \begin{array}{|c|} \hline 7 \\ \hline \end{array} + \begin{array}{|c|} \hline 2 \\ \hline \end{array} = 42$$

$$56 + 8 = 64$$

$$56 + \begin{array}{|c|} \hline 4 \\ \hline \end{array} + \begin{array}{|c|} \hline 4 \\ \hline \end{array} = 64$$

$$74 + 8 = 82$$

$$74 + \begin{array}{|c|} \hline 6 \\ \hline \end{array} + \begin{array}{|c|} \hline 2 \\ \hline \end{array} = 82$$

$$63 + 8 = 71$$

$$63 + \begin{array}{|c|} \hline 7 \\ \hline \end{array} + \begin{array}{|c|} \hline 1 \\ \hline \end{array} = 71$$

$$66 + 6 = 72$$

$$66 + \begin{array}{|c|} \hline 4 \\ \hline \end{array} + \begin{array}{|c|} \hline 2 \\ \hline \end{array} = 72$$

$$44 + 9 = 53$$

$$44 + \begin{array}{|c|} \hline 6 \\ \hline \end{array} + \begin{array}{|c|} \hline 3 \\ \hline \end{array} = 53$$

$$42 + 9 = 51$$

$$42 + \begin{array}{|c|} \hline 8 \\ \hline \end{array} + \begin{array}{|c|} \hline 1 \\ \hline \end{array} = 51$$

$$26 + 5 = 31$$

$$26 + \begin{array}{|c|} \hline 4 \\ \hline \end{array} + \begin{array}{|c|} \hline 1 \\ \hline \end{array} = 31$$

$$84 + 7 = 91$$

$$84 + \begin{array}{|c|} \hline 6 \\ \hline \end{array} + \begin{array}{|c|} \hline 1 \\ \hline \end{array} = 91$$

$$83 + 8 = 91$$

$$83 + \begin{array}{|c|} \hline 7 \\ \hline \end{array} + \begin{array}{|c|} \hline 1 \\ \hline \end{array} = 91$$

4 Vypočítej s pomocí rozkladu.

$$19 + 3 = 22$$

$$\begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline 2 \\ \hline \end{array}$$

$$8 + 39 = 47$$

$$\begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline 7 \\ \hline \end{array}$$

$$68 + 6 = 74$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 4 \\ \hline \end{array}$$

$$29 + 7 = 36$$

$$\begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline 6 \\ \hline \end{array}$$

$$7 + 26 = 33$$

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array}$$

$$89 + 9 = 98$$

$$\begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline 8 \\ \hline \end{array}$$

$$56 + 5 = 61$$

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array}$$

$$7 + 64 = 71$$

$$\begin{array}{|c|} \hline 6 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array}$$

$$38 + 4 = 42$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 2 \\ \hline \end{array}$$

$$16 + 7 = 23$$

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array}$$

$$9 + 74 = 83$$

$$\begin{array}{|c|} \hline 6 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array}$$

$$8 + 23 = 31$$

$$\begin{array}{|c|} \hline 7 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array}$$

$$56 + 6 = 62$$

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 2 \\ \hline \end{array}$$

$$7 + 77 = 84$$

$$\begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline 4 \\ \hline \end{array}$$

$$47 + 5 = 52$$

$$\begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline 2 \\ \hline \end{array}$$

$$47 + 9 = 56$$

$$\begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline 6 \\ \hline \end{array}$$

$$9 + 86 = 95$$

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array}$$

$$28 + 5 = 33$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array}$$

$$8 + 38 = 46$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 6 \\ \hline \end{array}$$

$$9 + 65 = 74$$

$$\begin{array}{|c|} \hline 5 \\ \hline \end{array} \begin{array}{|c|} \hline 4 \\ \hline \end{array}$$

$$27 + 8 = 35$$

$$\begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array}$$

$$9 + 82 = 91$$

$$\begin{array}{|c|} \hline 8 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array}$$

$$9 + 48 = 57$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 7 \\ \hline \end{array}$$

$$58 + 7 = 65$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array}$$

$$6 + 48 = 54$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 4 \\ \hline \end{array}$$

$$66 + 9 = 75$$

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array}$$

$$17 + 10 = 27$$

$$\begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline 7 \\ \hline \end{array}$$

$$10 + 88 = 98$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 8 \\ \hline \end{array}$$



5 Doplně tabulku.

24	9 < $\begin{matrix} 6 \\ 3 \end{matrix}$	= 33	46	6 < $\begin{matrix} 4 \\ 2 \end{matrix}$	= 52
37	6 < $\begin{matrix} 3 \\ 3 \end{matrix}$	= 43	26	7 < $\begin{matrix} 4 \\ 3 \end{matrix}$	= 33
68	3 < $\begin{matrix} 2 \\ 1 \end{matrix}$	= 71	28	5 < $\begin{matrix} 2 \\ 3 \end{matrix}$	= 33
45	6 < $\begin{matrix} 5 \\ 1 \end{matrix}$	= 51	17	9 < $\begin{matrix} 3 \\ 6 \end{matrix}$	= 26
88	4 < $\begin{matrix} 2 \\ 2 \end{matrix}$	= 92	39	4 < $\begin{matrix} 1 \\ 3 \end{matrix}$	= 43
59	2 < $\begin{matrix} 1 \\ 1 \end{matrix}$	= 61	54	7 < $\begin{matrix} 6 \\ 1 \end{matrix}$	= 61
72	9 < $\begin{matrix} 8 \\ 1 \end{matrix}$	= 81	47	6 < $\begin{matrix} 3 \\ 3 \end{matrix}$	= 53
83	8 < $\begin{matrix} 7 \\ 1 \end{matrix}$	= 91	75	7 < $\begin{matrix} 5 \\ 2 \end{matrix}$	= 82
36	6 < $\begin{matrix} 4 \\ 2 \end{matrix}$	= 42	56	8 < $\begin{matrix} 4 \\ 4 \end{matrix}$	= 64
79	4 < $\begin{matrix} 1 \\ 3 \end{matrix}$	= 83	48	4 < $\begin{matrix} 2 \\ 2 \end{matrix}$	= 52

6 Vypočítej.

a	b
$28 + 3 = \underline{32}$	$24 + 7 = \underline{31}$
$66 + 5 = \underline{71}$	$45 + 6 = \underline{51}$
$83 + 9 = \underline{92}$	$49 + 2 = \underline{51}$
$34 + 8 = \underline{42}$	$53 + 8 = \underline{62}$
$76 + 6 = \underline{82}$	$77 + 9 = \underline{86}$
$52 + 9 = \underline{61}$	$68 + 3 = \underline{71}$
$63 + 8 = \underline{71}$	$25 + 7 = \underline{32}$
$23 + 7 = \underline{30}$	$73 + 8 = \underline{81}$
$64 + 7 = \underline{71}$	$88 + 8 = \underline{96}$
$67 + 5 = \underline{72}$	$33 + 9 = \underline{42}$
$86 + 6 = \underline{92}$	$46 + 6 = \underline{52}$
$62 + 9 = \underline{71}$	$89 + 5 = \underline{94}$
$59 + 9 = \underline{68}$	$29 + 7 = \underline{36}$
$87 + 4 = \underline{91}$	$74 + 7 = \underline{81}$
$75 + 6 = \underline{81}$	$54 + 8 = \underline{62}$
$22 + 9 = \underline{31}$	$74 + 9 = \underline{83}$
$72 + 8 = \underline{80}$	$82 + 9 = \underline{91}$
$47 + 4 = \underline{51}$	$48 + 3 = \underline{51}$
$32 + 9 = \underline{41}$	$83 + 9 = \underline{92}$
$26 + 5 = \underline{31}$	$27 + 6 = \underline{33}$
$55 + 7 = \underline{62}$	$39 + 5 = \underline{44}$

7 Počítej a zapisuj podle vzoru.

$$34 - 6 = 28$$

$$34 - \begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 2 \\ \hline \end{array} = 28$$

$$45 - 7 = 38$$

$$45 - \begin{array}{|c|} \hline 5 \\ \hline \end{array} \begin{array}{|c|} \hline 2 \\ \hline \end{array} = 38$$

$$36 - 9 = 27$$

$$36 - \begin{array}{|c|} \hline 6 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array} = 27$$

$$24 - 9 = 15$$

$$24 - \begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array} = 15$$

$$75 - 6 = 69$$

$$75 - \begin{array}{|c|} \hline 5 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array} = 69$$

$$97 - 8 = 89$$

$$97 - \begin{array}{|c|} \hline 7 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array} = 89$$

$$64 - 7 = 57$$

$$64 - \begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array} = 57$$

$$35 - 9 = 26$$

$$35 - \begin{array}{|c|} \hline 5 \\ \hline \end{array} \begin{array}{|c|} \hline 4 \\ \hline \end{array} = 26$$

$$88 - 9 = 79$$

$$88 - \begin{array}{|c|} \hline 8 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array} = 79$$

$$94 - 5 = 89$$

$$94 - \begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array} = 89$$

$$85 - 8 = 77$$

$$85 - \begin{array}{|c|} \hline 5 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array} = 77$$

$$76 - 7 = 69$$

$$76 - \begin{array}{|c|} \hline 6 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array} = 69$$

8 Vypočítej s pomocí rozkladu.

$$31 - 4 = 27$$

$$\begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array}$$

$$81 - 9 = 72$$

$$\begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline 8 \\ \hline \end{array}$$

$$71 - 2 = 69$$

$$\begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array}$$

$$34 - 9 = 25$$

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array}$$

$$53 - 7 = 46$$

$$\begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline 4 \\ \hline \end{array}$$

$$32 - 5 = 27$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array}$$

$$41 - 0 = 41$$

$$\begin{array}{|c|} \hline 0 \\ \hline \end{array} \begin{array}{|c|} \hline 0 \\ \hline \end{array}$$

$$76 - 7 = 69$$

$$\begin{array}{|c|} \hline 6 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array}$$

$$44 - 8 = 36$$

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 4 \\ \hline \end{array}$$

$$43 - 6 = 37$$

$$\begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array}$$

$$82 - 7 = 75$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array}$$

$$45 - 6 = 39$$

$$\begin{array}{|c|} \hline 5 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array}$$

$$72 - 9 = 63$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 7 \\ \hline \end{array}$$

$$24 - 9 = 15$$

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array}$$

$$94 - 5 = 89$$

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array}$$

$$57 - 9 = 48$$

$$\begin{array}{|c|} \hline 7 \\ \hline \end{array} \begin{array}{|c|} \hline 2 \\ \hline \end{array}$$

$$23 - 8 = 15$$

$$\begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array}$$

$$91 - 3 = 88$$

$$\begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline 2 \\ \hline \end{array}$$

$$73 - 5 = 68$$

$$\begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline 2 \\ \hline \end{array}$$

$$46 - 8 = 38$$

$$\begin{array}{|c|} \hline 6 \\ \hline \end{array} \begin{array}{|c|} \hline 2 \\ \hline \end{array}$$

$$92 - 4 = 88$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 2 \\ \hline \end{array}$$

$$33 - 9 = 24$$

$$\begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline 6 \\ \hline \end{array}$$

$$41 - 7 = 34$$

$$\begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline 6 \\ \hline \end{array}$$

$$35 - 7 = 28$$

$$\begin{array}{|c|} \hline 5 \\ \hline \end{array} \begin{array}{|c|} \hline 2 \\ \hline \end{array}$$

$$61 - 8 = 53$$

$$\begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline 7 \\ \hline \end{array}$$

$$72 - 6 = 86$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 4 \\ \hline \end{array}$$

$$52 - 8 = 44$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 6 \\ \hline \end{array}$$

$$54 - 8 = 46$$

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 4 \\ \hline \end{array}$$



9 Dopln tabulky podle vzoru.

a

	21	61	31	11	41	91	81	71	51
-	5	7	4	8	3	2	9	5	6
	1 4	1 6	1 3	1 7	1 2	1 1	1 8	1 4	1 5
=	16	54	27	3	38	89	72	66	45

b

	43	63	83	23	93	53	13	73	33
-	4	5	9	4	8	7	6	5	4
	3 1	3 2	3 6	3 1	3 5	3 4	3 3	3 2	3 1
=	39	58	74	19	85	46	7	68	29

10 Zopakuj si.

a	b	c	d
12 - 4 = <u>8</u>	13 - 7 = <u>6</u>	11 - 4 = <u>7</u>	12 - 9 = <u>3</u>
11 - 2 = <u>9</u>	17 - 9 = <u>8</u>	13 - 3 = <u>10</u>	16 - 7 = <u>9</u>
14 - 9 = <u>5</u>	12 - 3 = <u>9</u>	13 - 8 = <u>5</u>	15 - 9 = <u>6</u>
17 - 8 = <u>9</u>	16 - 9 = <u>7</u>	15 - 8 = <u>7</u>	11 - 5 = <u>6</u>
12 - 5 = <u>7</u>	12 - 6 = <u>6</u>	12 - 7 = <u>5</u>	18 - 9 = <u>9</u>
12 - 2 = <u>10</u>	15 - 7 = <u>8</u>	13 - 4 = <u>9</u>	13 - 9 = <u>4</u>
15 - 6 = <u>9</u>	11 - 3 = <u>8</u>	16 - 8 = <u>8</u>	11 - 6 = <u>5</u>
14 - 8 = <u>6</u>	14 - 7 = <u>7</u>	11 - 7 = <u>4</u>	18 - 8 = <u>10</u>
11 - 9 = <u>2</u>	11 - 8 = <u>3</u>	19 - 9 = <u>10</u>	14 - 5 = <u>9</u>
13 - 6 = <u>7</u>	13 - 5 = <u>8</u>	14 - 6 = <u>8</u>	12 - 8 = <u>4</u>

11 Doplně tabulku.

72	7 < $\begin{matrix} 2 \\ 5 \end{matrix}$	= 65	94	6 < $\begin{matrix} 4 \\ 2 \end{matrix}$	= 88
28	9 < $\begin{matrix} 8 \\ 1 \end{matrix}$	= 19	36	8 < $\begin{matrix} 6 \\ 2 \end{matrix}$	= 28
46	8 < $\begin{matrix} 6 \\ 2 \end{matrix}$	= 38	23	5 < $\begin{matrix} 3 \\ 2 \end{matrix}$	= 18
83	6 < $\begin{matrix} 3 \\ 3 \end{matrix}$	= 77	42	4 < $\begin{matrix} 2 \\ 2 \end{matrix}$	= 38
37	8 < $\begin{matrix} 7 \\ 1 \end{matrix}$	= 29	32	8 < $\begin{matrix} 2 \\ 6 \end{matrix}$	= 24
52	3 < $\begin{matrix} 2 \\ 1 \end{matrix}$	= 49	62	7 < $\begin{matrix} 2 \\ 5 \end{matrix}$	= 55
61	2 < $\begin{matrix} 1 \\ 1 \end{matrix}$	= 59	54	9 < $\begin{matrix} 4 \\ 5 \end{matrix}$	= 45
55	9 < $\begin{matrix} 5 \\ 4 \end{matrix}$	= 46	35	6 < $\begin{matrix} 5 \\ 1 \end{matrix}$	= 29
45	6 < $\begin{matrix} 5 \\ 1 \end{matrix}$	= 39	41	3 < $\begin{matrix} 1 \\ 2 \end{matrix}$	= 38
64	5 < $\begin{matrix} 4 \\ 1 \end{matrix}$	= 59	27	9 < $\begin{matrix} 7 \\ 2 \end{matrix}$	= 18

12 Vypočítej.**a**

$21 - 4 = \underline{17}$

$45 - 6 = \underline{39}$

$62 - 8 = \underline{54}$

$96 - 7 = \underline{89}$

$23 - 9 = \underline{14}$

$17 - 8 = \underline{9}$

$76 - 7 = \underline{69}$

$51 - 2 = \underline{49}$

$82 - 6 = \underline{76}$

$66 - 7 = \underline{59}$

$42 - 3 = \underline{39}$

$48 - 9 = \underline{39}$

$77 - 9 = \underline{68}$

$57 - 8 = \underline{49}$

$63 - 7 = \underline{56}$

$86 - 9 = \underline{77}$

$35 - 6 = \underline{29}$

$83 - 5 = \underline{78}$

$52 - 4 = \underline{48}$

$36 - 7 = \underline{29}$

$68 - 9 = \underline{59}$

b

$94 - 6 = \underline{88}$

$61 - 3 = \underline{58}$

$62 - 8 = \underline{54}$

$22 - 3 = \underline{19}$

$78 - 9 = \underline{69}$

$98 - 9 = \underline{89}$

$37 - 8 = \underline{29}$

$87 - 9 = \underline{78}$

$43 - 7 = \underline{36}$

$81 - 9 = \underline{72}$

$56 - 7 = \underline{49}$

$64 - 8 = \underline{56}$

$92 - 5 = \underline{77}$

$38 - 9 = \underline{29}$

$44 - 6 = \underline{38}$

$86 - 9 = \underline{77}$

$91 - 5 = \underline{86}$

$27 - 6 = \underline{21}$

$75 - 9 = \underline{66}$

$58 - 9 = \underline{49}$

$95 - 7 = \underline{88}$

$41 - 5 = \underline{36}$

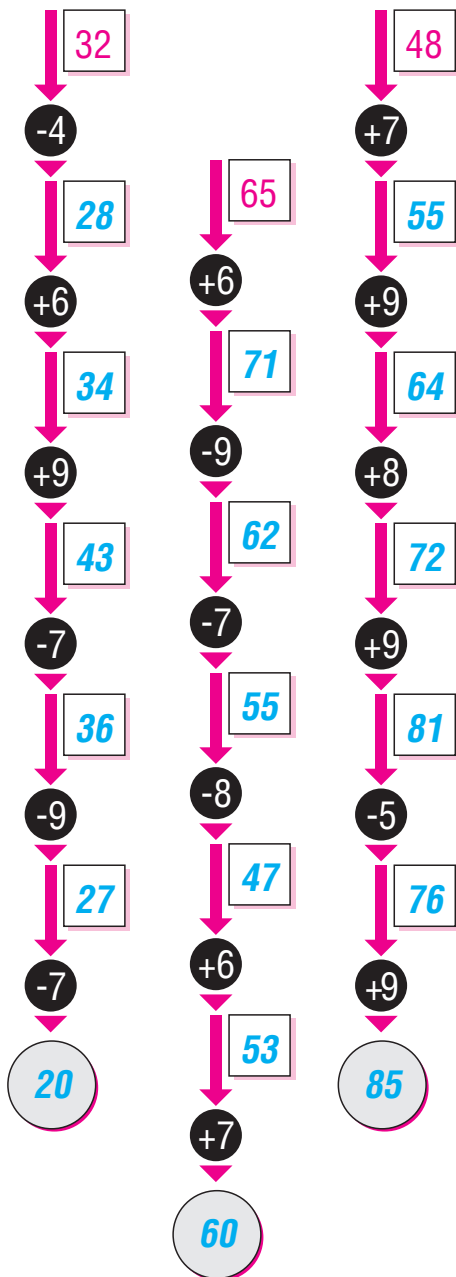
$84 - 9 = \underline{75}$



13 Vypočítej.

- | | |
|---------------------------|---------------------------|
| a | b |
| $36 + 7 = \underline{43}$ | $42 - 7 = \underline{35}$ |
| $44 - 5 = \underline{39}$ | $59 + 8 = \underline{67}$ |
| $62 + 9 = \underline{71}$ | $68 + 3 = \underline{71}$ |
| $21 - 7 = \underline{14}$ | $23 - 8 = \underline{15}$ |
| $75 + 6 = \underline{81}$ | $82 - 3 = \underline{79}$ |
| $53 + 8 = \underline{61}$ | $51 - 2 = \underline{49}$ |
| $93 - 4 = \underline{89}$ | $84 + 8 = \underline{92}$ |
| $46 - 9 = \underline{37}$ | $73 + 9 = \underline{82}$ |
| $47 + 5 = \underline{52}$ | $24 + 7 = \underline{31}$ |
| $22 - 3 = \underline{19}$ | $75 - 9 = \underline{66}$ |
| $86 - 8 = \underline{78}$ | $39 + 4 = \underline{43}$ |
| $64 + 8 = \underline{72}$ | $66 - 7 = \underline{59}$ |
| $37 + 9 = \underline{46}$ | $43 - 6 = \underline{37}$ |
| $88 + 7 = \underline{95}$ | $25 + 8 = \underline{33}$ |
| $55 - 6 = \underline{49}$ | $41 - 4 = \underline{37}$ |
| $97 - 9 = \underline{68}$ | $48 + 4 = \underline{52}$ |
| $38 + 8 = \underline{46}$ | $91 - 6 = \underline{85}$ |
| $77 - 9 = \underline{68}$ | $57 - 9 = \underline{48}$ |
| $95 - 7 = \underline{88}$ | $57 + 8 = \underline{65}$ |
| $55 + 7 = \underline{62}$ | $26 - 9 = \underline{17}$ |
| $79 + 4 = \underline{83}$ | $71 - 7 = \underline{64}$ |

14 Vypočítej řetězce.



15 Sčítej a zapisuj podle vzoru. Proveď kontrolu záměnou sčítanců.

$$25 + 23 = (25 + 20) + 3 = 45 + 3 = 48 \quad 23 + 25 = 48$$

$$16 + 31 = (16 + 30) + 1 = 46 + 1 = 47 \quad 31 + 16 = 47$$

$$54 + 25 = (54 + 20) + 5 = 74 + 5 = 79 \quad 25 + 54 = 79$$

$$81 + 18 = (81 + 10) + 8 = 91 + 8 = 99 \quad 18 + 81 = 99$$

$$72 + 16 = (72 + 10) + 6 = 82 + 6 = 88 \quad 16 + 72 = 88$$

$$35 + 45 = (35 + 40) + 5 = 75 + 5 = 80 \quad 45 + 35 = 80$$

$$48 + 21 = (48 + 20) + 1 = 68 + 1 = 69 \quad 21 + 48 = 69$$

$$29 + 50 = (29 + 50) + 0 = 79 + 0 = 79 \quad 50 + 29 = 79$$

$$63 + 12 = (63 + 10) + 2 = 73 + 2 = 75 \quad 12 + 63 = 75$$

$$42 + 44 = (42 + 40) + 4 = 82 + 4 = 86 \quad 44 + 42 = 86$$

16 Odčítej a zapisuj podle vzoru. Proveď kontrolu sčítáním.

$$36 - 12 = (36 - 10) - 2 = 26 - 2 = 24 \quad 24 + 12 = 36$$

$$58 - 25 = (58 - 20) - 5 = 38 - 5 = 33 \quad 33 + 25 = 58$$

$$27 - 14 = (27 - 10) - 4 = 17 - 4 = 13 \quad 13 + 14 = 27$$

$$96 - 73 = (96 - 70) - 3 = 26 - 3 = 23 \quad 23 + 73 = 96$$

$$89 - 45 = (89 - 40) - 5 = 49 - 5 = 44 \quad 44 + 45 = 89$$

$$44 - 21 = (44 - 20) - 1 = 24 - 1 = 23 \quad 23 + 21 = 44$$

$$58 - 37 = (58 - 30) - 7 = 28 - 7 = 21 \quad 21 + 37 = 58$$

$$72 - 41 = (72 - 40) - 1 = 32 - 1 = 31 \quad 31 + 41 = 72$$

$$65 - 54 = (65 - 50) - 4 = 15 - 4 = 11 \quad 11 + 54 = 65$$

$$86 - 25 = (86 - 20) - 5 = 66 - 5 = 61 \quad 61 + 25 = 86$$



17 Sčítej a zapisuj podle vzoru. Proveď kontrolu záměnou sčítanců.

$$25 + 37 = \underline{(25 + 30) + 7 = 55 + 7 = 62} \quad \underline{37 + 25 = 62}$$

$$48 + 26 = \underline{(48 + 20) + 6 = 68 + 6 = 74} \quad \underline{26 + 48 = 74}$$

$$67 + 14 = \underline{(67 + 10) + 4 = 77 + 4 = 79} \quad \underline{14 + 67 = 79}$$

$$29 + 52 = \underline{(29 + 50) + 2 = 79 + 2 = 81} \quad \underline{52 + 29 = 81}$$

$$73 + 18 = \underline{(73 + 10) + 8 = 83 + 8 = 91} \quad \underline{18 + 73 = 91}$$

$$54 + 39 = \underline{(54 + 30) + 9 = 84 + 9 = 93} \quad \underline{39 + 54 = 93}$$

$$65 + 18 = \underline{(65 + 10) + 8 = 75 + 8 = 83} \quad \underline{18 + 65 = 83}$$

$$37 + 37 = \underline{(37 + 30) + 7 = 67 + 7 = 74} \quad \underline{37 + 37 = 74}$$

$$45 + 36 = \underline{(45 + 30) + 6 = 75 + 6 = 81} \quad \underline{36 + 45 = 81}$$

$$22 + 49 = \underline{(22 + 40) + 9 = 62 + 9 = 71} \quad \underline{49 + 22 = 71}$$

18 Vypočítej.

a	b	c	d
$36 - 9 = \underline{27}$	$58 + 7 = \underline{65}$	$27 + 5 = \underline{32}$	$54 + 7 = \underline{61}$

$28 - 17 = \underline{11}$	$54 + 9 = \underline{63}$	$63 - 5 = \underline{58}$	$42 - 7 = \underline{35}$
----------------------------	---------------------------	---------------------------	---------------------------

$22 + 16 = \underline{38}$	$29 + 6 = \underline{35}$	$38 + 6 = \underline{44}$	$37 + 7 = \underline{44}$
----------------------------	---------------------------	---------------------------	---------------------------

$32 + 9 = \underline{41}$	$64 + 8 = \underline{72}$	$56 + 8 = \underline{64}$	$27 - 9 = \underline{18}$
---------------------------	---------------------------	---------------------------	---------------------------

$43 - 20 = \underline{23}$	$81 - 4 = \underline{77}$	$26 + 6 = \underline{32}$	$36 - 9 = \underline{27}$
----------------------------	---------------------------	---------------------------	---------------------------

$56 - 32 = \underline{24}$	$26 + 54 = \underline{80}$	$68 - 45 = \underline{23}$	$37 - 21 = \underline{16}$
----------------------------	----------------------------	----------------------------	----------------------------

$43 + 14 = \underline{57}$	$35 + 33 = \underline{68}$	$86 + 13 = \underline{99}$	$19 + 31 = \underline{50}$
----------------------------	----------------------------	----------------------------	----------------------------

$65 + 22 = \underline{87}$	$79 - 54 = \underline{25}$	$49 - 36 = \underline{13}$	$56 + 43 = \underline{99}$
----------------------------	----------------------------	----------------------------	----------------------------

$48 + 22 = \underline{70}$	$43 + 52 = \underline{95}$	$78 - 32 = \underline{46}$	$49 - 27 = \underline{22}$
----------------------------	----------------------------	----------------------------	----------------------------

$45 + 36 = \underline{81}$	$36 - 15 = \underline{21}$	$63 - 23 = \underline{40}$	$40 + 53 = \underline{93}$
----------------------------	----------------------------	----------------------------	----------------------------

1. Sčítání a odčítání v oboru do 100

10

M 2/3, str. 4 – 22

19 Vypočítej.

a	b	c	d
$63 - 3 = \underline{60}$	$42 - 4 = \underline{38}$	$34 + 8 = \underline{42}$	$29 + 3 = \underline{32}$
$40 + 3 = \underline{43}$	$37 + 9 = \underline{46}$	$54 - 5 = \underline{49}$	$63 - 8 = \underline{55}$
$62 + 8 = \underline{70}$	$27 - 8 = \underline{19}$	$63 - 6 = \underline{57}$	$29 + 4 = \underline{33}$
$24 - 8 = \underline{16}$	$20 + 45 = \underline{65}$	$11 + 18 = \underline{29}$	$56 - 12 = \underline{44}$
$34 + 34 = \underline{68}$	$12 + 23 = \underline{35}$	$56 - 26 = \underline{30}$	$52 + 26 = \underline{78}$
$34 + 25 = \underline{59}$	$65 + 34 = \underline{99}$	$37 - 14 = \underline{23}$	$24 + 24 = \underline{48}$
$58 + 17 = \underline{75}$	$27 + 25 = \underline{52}$	$34 + 19 = \underline{53}$	$63 - 40 = \underline{23}$
$42 - 30 = \underline{12}$	$34 + 28 = \underline{62}$	$29 + 33 = \underline{62}$	$16 + 75 = \underline{91}$
$38 + 56 = \underline{94}$	$29 + 46 = \underline{75}$	$54 - 14 = \underline{40}$	$27 - 17 = \underline{10}$
$62 + 18 = \underline{80}$	$59 + 24 = \underline{83}$	$36 - 20 = \underline{16}$	$81 - 51 = \underline{30}$

20 Doplně správně tabulky.

a

	36	25	47	50	24	47	75	52	30	63
+	8	20	8	42	41	6	20	40	48	34

=	44	45	55	92	65	53	95	92	78	97
---	----	----	----	----	----	----	----	----	----	----

b

	28	77	32	84	43	96	51	30	65	80
-	14	8	3	40	13	51	27	15	26	75

=	14	69	29	44	30	45	24	15	39	5
---	----	----	----	----	----	----	----	----	----	---

c

	55	72	96	43	100	97	34	81	63	20
-	37	45	68	14	55	78	27	19	44	8

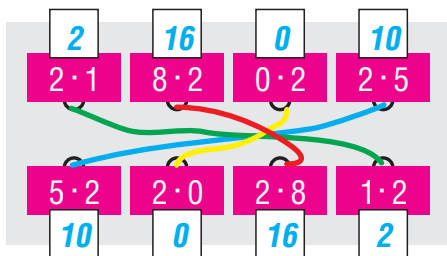
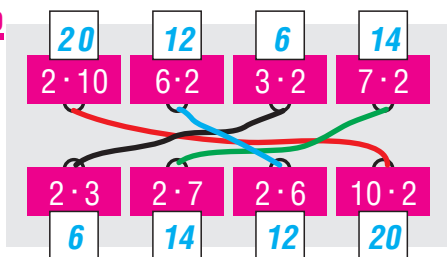
=	18	27	28	29	45	19	7	62	19	12
---	----	----	----	----	----	----	---	----	----	----



21 a) Vypočítej. b) Spoj příklady se stejnými výsledky.

a

$2 \cdot 2 = \underline{4}$	$2 \cdot 1 = \underline{2}$
$3 \cdot 2 = \underline{6}$	$2 \cdot 9 = \underline{18}$
$7 \cdot 2 = \underline{14}$	$9 \cdot 2 = \underline{18}$
$2 \cdot 4 = \underline{8}$	$2 \cdot 3 = \underline{6}$
$1 \cdot 2 = \underline{2}$	$4 \cdot 2 = \underline{8}$
$2 \cdot 6 = \underline{12}$	$5 \cdot 2 = \underline{10}$
$2 \cdot 10 = \underline{20}$	$2 \cdot 5 = \underline{10}$
$2 \cdot 0 = \underline{0}$	$10 \cdot 2 = \underline{20}$
$6 \cdot 2 = \underline{12}$	$8 \cdot 2 = \underline{16}$
$2 \cdot 8 = \underline{16}$	$2 \cdot 7 = \underline{14}$



22 Počítej podle vzoru.

a

6	→	12
1	→	16
8	→	6
3	→	8
4	→	14
7	→	20
10	→	10
5	→	4
2	→	18
9	→	

2

b

$(20 - 16) \cdot 2 = \underline{5 \cdot 2} = \underline{10}$
$(35 - 30) \cdot 2 = \underline{9 \cdot 2} = \underline{18}$
$(18 - 9) \cdot 2 = \underline{2 \cdot 2} = \underline{4}$
$(40 - 38) \cdot 2 = \underline{8 \cdot 2} = \underline{16}$
$(60 - 52) \cdot 2 = \underline{0 \cdot 2} = \underline{0}$
$(40 - 40) \cdot 2 = \underline{7 \cdot 2} = \underline{14}$
$(70 - 63) \cdot 2 = \underline{1 \cdot 2} = \underline{2}$
$(100 - 99) \cdot 2 = \underline{6 \cdot 2} = \underline{12}$
$(90 - 84) \cdot 2 = \underline{3 \cdot 2} = \underline{6}$
$(30 - 27) \cdot 2 = \underline{\quad} = \underline{\quad}$

23 Vypočítej a proved' zkoušku násobením. Pak doplňuj znaménka \odot .

a	$6 : 2 = \underline{3}$	$\underline{3} \cdot 2 = 6$	b	$4 \odot 2 = 2$	$6 \odot 2 = 3$
	$12 : 2 = \underline{6}$	$\underline{6} \cdot 2 = 12$		$4 \odot 2 = 8$	$1 \odot 2 = 2$
	$2 : 2 = \underline{1}$	$\underline{1} \cdot 2 = 2$		$8 \odot 2 = 16$	$12 \odot 2 = 6$
	$16 : 2 = \underline{8}$	$\underline{8} \cdot 2 = 16$		$10 \odot 2 = 5$	$7 \odot 2 = 14$
	$4 : 2 = \underline{2}$	$\underline{2} \cdot 2 = 4$		$0 \odot 2 = 0$	$10 \odot 2 = 20$
	$20 : 2 = \underline{10}$	$\underline{10} \cdot 2 = 20$		$16 \odot 2 = 8$	$20 \odot 2 = 10$
	$18 : 2 = \underline{9}$	$\underline{9} \cdot 2 = 18$		$5 \odot 2 = 10$	$6 \odot 2 = 12$
	$8 : 2 = \underline{4}$	$\underline{4} \cdot 2 = 8$		$2 \odot 2 = 1$	$14 \odot 2 = 7$
	$14 : 2 = \underline{7}$	$\underline{7} \cdot 2 = 14$		$9 \odot 2 = 18$	$2 \odot 2 = 4$
	$20 : 2 = \underline{10}$	$\underline{10} \cdot 2 = 20$		$18 \odot 2 = 9$	$8 \odot 2 = 4$

24 Počítej podle vzoru. Potom vypočítej řetězce.

a		b																																																																															
<table border="1"> <tr><td>4</td><td>→</td><td>2</td></tr> <tr><td>10</td><td>→</td><td>5</td></tr> <tr><td>18</td><td>→</td><td>9</td></tr> <tr><td>2</td><td>→</td><td>1</td></tr> <tr><td>16</td><td>→</td><td>8</td></tr> <tr><td>20</td><td>→</td><td>10</td></tr> <tr><td>14</td><td>→</td><td>7</td></tr> <tr><td>8</td><td>→</td><td>4</td></tr> <tr><td>12</td><td>→</td><td>6</td></tr> <tr><td>6</td><td>→</td><td>3</td></tr> </table>	4	→	2	10	→	5	18	→	9	2	→	1	16	→	8	20	→	10	14	→	7	8	→	4	12	→	6	6	→	3	$\begin{matrix} : \\ 2 \end{matrix}$	<table border="1"> <tr><td>2</td><td>· 2</td><td>4</td><td>· 2</td><td>8</td><td>· 2</td><td>16</td></tr> <tr><td>20</td><td>: 2</td><td>10</td><td>: 2</td><td>5</td><td>+ 7</td><td>12</td></tr> <tr><td>30</td><td>- 16</td><td>14</td><td>: 2</td><td>7</td><td>+ 9</td><td>16</td></tr> <tr><td>14</td><td>+ 6</td><td>20</td><td>: 2</td><td>10</td><td>: 2</td><td>5</td></tr> <tr><td>40</td><td>- 22</td><td>18</td><td>: 2</td><td>9</td><td>+ 9</td><td>18</td></tr> <tr><td>26</td><td>- 8</td><td>18</td><td>: 2</td><td>9</td><td>+ 31</td><td>40</td></tr> <tr><td>16</td><td>: 2</td><td>8</td><td>: 2</td><td>4</td><td>+ 45</td><td>49</td></tr> </table>	2	· 2	4	· 2	8	· 2	16	20	: 2	10	: 2	5	+ 7	12	30	- 16	14	: 2	7	+ 9	16	14	+ 6	20	: 2	10	: 2	5	40	- 22	18	: 2	9	+ 9	18	26	- 8	18	: 2	9	+ 31	40	16	: 2	8	: 2	4	+ 45	49
4	→	2																																																																															
10	→	5																																																																															
18	→	9																																																																															
2	→	1																																																																															
16	→	8																																																																															
20	→	10																																																																															
14	→	7																																																																															
8	→	4																																																																															
12	→	6																																																																															
6	→	3																																																																															
2	· 2	4	· 2	8	· 2	16																																																																											
20	: 2	10	: 2	5	+ 7	12																																																																											
30	- 16	14	: 2	7	+ 9	16																																																																											
14	+ 6	20	: 2	10	: 2	5																																																																											
40	- 22	18	: 2	9	+ 9	18																																																																											
26	- 8	18	: 2	9	+ 31	40																																																																											
16	: 2	8	: 2	4	+ 45	49																																																																											



25 Vypočítej.

a	b	c	d
$3 \cdot 2 = \underline{6}$	$3 \cdot 4 = \underline{12}$	$2 \cdot 1 = \underline{2}$	$6 \cdot 2 = \underline{12}$
$3 \cdot 0 = \underline{0}$	$1 \cdot 3 = \underline{3}$	$2 \cdot 8 = \underline{16}$	$1 \cdot 4 = \underline{4}$
$5 \cdot 3 = \underline{15}$	$3 \cdot 10 = \underline{30}$	$10 \cdot 2 = \underline{20}$	$1 \cdot 6 = \underline{6}$
$2 \cdot 6 = \underline{12}$	$3 \cdot 5 = \underline{15}$	$7 \cdot 3 = \underline{21}$	$10 \cdot 3 = \underline{30}$
$3 \cdot 3 = \underline{9}$	$2 \cdot 3 = \underline{6}$	$2 \cdot 2 = \underline{4}$	$9 \cdot 2 = \underline{18}$
$2 \cdot 9 = \underline{18}$	$9 \cdot 3 = \underline{27}$	$9 \cdot 3 = \underline{27}$	$8 \cdot 3 = \underline{24}$
$1 \cdot 2 = \underline{2}$	$3 \cdot 6 = \underline{18}$	$1 \cdot 4 = \underline{4}$	$2 \cdot 10 = \underline{20}$
$3 \cdot 8 = \underline{24}$	$8 \cdot 3 = \underline{24}$	$6 \cdot 3 = \underline{18}$	$2 \cdot 4 = \underline{8}$
$4 \cdot 3 = \underline{12}$	$3 \cdot 9 = \underline{27}$	$8 \cdot 2 = \underline{16}$	$3 \cdot 1 = \underline{3}$
$3 \cdot 7 = \underline{21}$	$2 \cdot 7 = \underline{14}$	$2 \cdot 5 = \underline{10}$	$7 \cdot 2 = \underline{14}$

26 Počítej podle vzoru. Potom vypočítej řetězce.

a

$(1 \cdot 3) \cdot 3 = \underline{3 \cdot 3} = \underline{9}$	$3 \cdot 3 = \underline{9}$
$(2 \cdot 5) \cdot 3 = \underline{10 \cdot 3} = \underline{30}$	
$(2 \cdot 2) \cdot 3 = \underline{4 \cdot 3} = \underline{12}$	
$(30 - 23) \cdot 3 = \underline{7 \cdot 3} = \underline{21}$	
$(2 \cdot 1) \cdot 3 = \underline{2 \cdot 3} = \underline{6}$	
$(4 \cdot 2) \cdot 3 = \underline{8 \cdot 3} = \underline{24}$	
$(20 - 15) \cdot 3 = \underline{5 \cdot 3} = \underline{15}$	
$(3 \cdot 3) \cdot 3 = \underline{9 \cdot 3} = \underline{27}$	
$(20 - 19) \cdot 3 = \underline{1 \cdot 3} = \underline{3}$	
$(3 \cdot 2) \cdot 3 = \underline{6 \cdot 3} = \underline{18}$	

b

9		4		7
·3 ▼	6	·3 ▼	8	·3 ▼
27	·3 ▼	12	:2 ▼	21
-7 ▼	18	:2 ▼	4	-3 ▼
20	:2 ▼	6	·3 ▼	18
:2 ▼	9	:2 ▼	12	:2 ▼
10	·3 ▼	3	+12 ▼	9
27			24	

2. Násobení a dělení v oboru násobilky

14

M 2/3, str. 26 – 55

27 Vypočítej a proveď zkoušku násobením. Pak doplňuj znaménka .

a $15 : 3 = \underline{5}$ $\underline{5} \cdot 3 = 15$

$3 : 3 = \underline{1}$ $\underline{1} \cdot 3 = \underline{3}$

$27 : 3 = \underline{9}$ $\underline{9} \cdot 3 = \underline{27}$

$6 : 3 = \underline{2}$ $\underline{2} \cdot 3 = \underline{6}$

$21 : 3 = \underline{7}$ $\underline{7} \cdot 3 = \underline{21}$

$30 : 3 = \underline{10}$ $\underline{10} \cdot 3 = \underline{30}$

$12 : 3 = \underline{4}$ $\underline{4} \cdot 3 = \underline{12}$

$24 : 3 = \underline{8}$ $\underline{8} \cdot 3 = \underline{24}$

$18 : 3 = \underline{6}$ $\underline{6} \cdot 3 = \underline{18}$

$9 : 3 = \underline{3}$ $\underline{3} \cdot 3 = \underline{9}$

b $6 \div 3 = 2$ $12 \div 3 = 4$

$2 \div 3 = 6$ $4 \div 3 = 12$

$21 \div 3 = 7$ $27 \div 3 = 9$

$7 \div 3 = 21$ $6 \div 3 = 18$

$30 \div 3 = 10$ $15 \div 3 = 5$

$3 \div 3 = 9$ $8 \div 3 = 24$

$3 \div 3 = 1$ $5 \div 3 = 15$

$9 \div 3 = 27$ $24 \div 3 = 8$

$1 \div 3 = 3$ $0 \div 3 = 0$

$9 \div 3 = 3$ $18 \div 3 = 6$

28 Počítej podle vzoru.

a

8	→	4
10	→	5
14	→	7
18	→ \div	9
2	→	1
20	→ \cdot	10
16	→	8
4	→	2
12	→	6
6	→	3

b

5	→	15
9	→	27
4	→	12
6	→ \cdot	18
3	→	9
7	→ \cdot	21
2	→	6
8	→	24
1	→	3
10	→	30

c

3	→	1
9	→	3
15	→	5
27	→ \div	9
21	→	7
30	→ \cdot	10
24	→	8
18	→	6
12	→	4
6	→	2



29 Vypočítej. Potom spoj příklady se stejnými výsledky.

a $6 \cdot 4 = \underline{24}$ $5 \cdot 4 = \underline{20}$ **b**

$3 \cdot 4 = \underline{12}$ $1 \cdot 4 = \underline{4}$

$4 \cdot 1 = \underline{4}$ $4 \cdot 7 = \underline{28}$

$7 \cdot 4 = \underline{28}$ $4 \cdot 6 = \underline{24}$

$8 \cdot 4 = \underline{32}$ $4 \cdot 0 = \underline{0}$

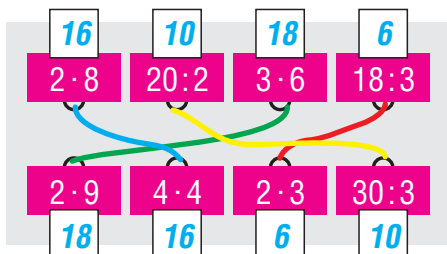
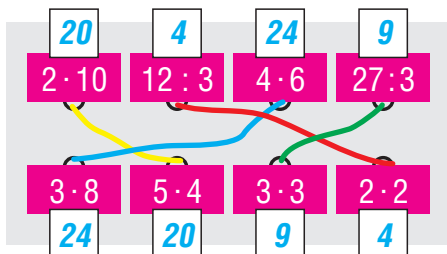
$2 \cdot 4 = \underline{8}$ $4 \cdot 8 = \underline{32}$

$4 \cdot 2 = \underline{8}$ $9 \cdot 4 = \underline{36}$

$4 \cdot 5 = \underline{20}$ $4 \cdot 3 = \underline{12}$

$10 \cdot 4 = \underline{40}$ $4 \cdot 10 = \underline{40}$

$4 \cdot 4 = \underline{16}$ $4 \cdot 9 = \underline{36}$



30 Vypočítej.

a $4 \cdot 6 = \underline{24}$

b $4 \cdot 2 = \underline{8}$

c $2 \cdot 4 = \underline{8}$

d $4 \cdot 9 = \underline{36}$

$1 \cdot 4 = \underline{4}$

$9 \cdot 4 = \underline{36}$

$10 \cdot 4 = \underline{40}$

$3 \cdot 4 = \underline{12}$

$8 \cdot 4 = \underline{32}$

$8 \cdot 3 = \underline{24}$

$4 \cdot 1 = \underline{4}$

$3 \cdot 1 = \underline{3}$

$7 \cdot 3 = \underline{21}$

$2 \cdot 0 = \underline{0}$

$9 \cdot 3 = \underline{27}$

$10 \cdot 3 = \underline{30}$

$4 \cdot 3 = \underline{12}$

$7 \cdot 2 = \underline{14}$

$2 \cdot 1 = \underline{2}$

$5 \cdot 2 = \underline{10}$

$2 \cdot 6 = \underline{12}$

$9 \cdot 2 = \underline{18}$

$8 \cdot 2 = \underline{16}$

$2 \cdot 2 = \underline{4}$

$10 \cdot 2 = \underline{20}$

$4 \cdot 7 = \underline{28}$

$3 \cdot 3 = \underline{9}$

$0 \cdot 3 = \underline{0}$

$2 \cdot 5 = \underline{10}$

$3 \cdot 5 = \underline{15}$

$4 \cdot 8 = \underline{32}$

$3 \cdot 2 = \underline{6}$

$3 \cdot 6 = \underline{18}$

$6 \cdot 4 = \underline{24}$

$5 \cdot 4 = \underline{20}$

$4 \cdot 4 = \underline{16}$

$7 \cdot 4 = \underline{28}$

$4 \cdot 10 = \underline{40}$

$4 \cdot 0 = \underline{0}$

$4 \cdot 5 = \underline{20}$

31 Vypočítej a proved' zkoušku násobením. Potom počítej podle vzoru.

a $8 : 4 = \underline{2}$ $\underline{2} \cdot 4 = 8$

$20 : 4 = \underline{5}$ $\underline{5} \cdot 4 = 20$

$28 : 4 = \underline{7}$ $\underline{7} \cdot 4 = 28$

$4 : 4 = \underline{1}$ $\underline{1} \cdot 4 = 4$

$40 : 4 = \underline{10}$ $\underline{10} \cdot 4 = 40$

$32 : 4 = \underline{8}$ $\underline{8} \cdot 4 = 32$

$12 : 4 = \underline{3}$ $\underline{3} \cdot 4 = 12$

$24 : 4 = \underline{6}$ $\underline{6} \cdot 4 = 24$

$36 : 4 = \underline{9}$ $\underline{9} \cdot 4 = 36$

$16 : 4 = \underline{4}$ $\underline{4} \cdot 4 = 16$

b

8	32	16	40	0	24
---	----	----	----	---	----

	:	4			
--	---	---	--	--	--

2	8	4	10	0	6
---	---	---	----	---	---

	:	2			
--	---	---	--	--	--

1	4	2	5	0	3
---	---	---	---	---	---

32 Vypočítej.

a $20 : 4 = \underline{5}$

b $24 : 4 = \underline{6}$

c $28 : 4 = \underline{7}$

d $32 : 4 = \underline{8}$

$3 \cdot 3 = \underline{9}$

$10 \cdot 4 = \underline{40}$

$24 : 3 = \underline{8}$

$27 : 3 = \underline{9}$

$30 : 3 = \underline{10}$

$6 : 3 = \underline{2}$

$9 \cdot 4 = \underline{36}$

$16 : 2 = \underline{8}$

$4 \cdot 4 = \underline{16}$

$3 \cdot 4 = \underline{12}$

$9 : 3 = \underline{3}$

$8 \cdot 4 = \underline{32}$

$3 \cdot 9 = \underline{27}$

$12 : 2 = \underline{6}$

$7 \cdot 4 = \underline{28}$

$12 : 3 = \underline{4}$

$10 \cdot 2 = \underline{20}$

$6 \cdot 4 = \underline{24}$

$6 : 2 = \underline{3}$

$18 : 2 = \underline{9}$

$2 \cdot 4 = \underline{8}$

$8 : 2 = \underline{4}$

$14 : 2 = \underline{7}$

$4 : 2 = \underline{2}$

$16 : 4 = \underline{4}$

$12 : 4 = \underline{3}$

$8 : 4 = \underline{2}$

$4 : 4 = \underline{1}$

$5 \cdot 4 = \underline{20}$

$21 : 3 = \underline{7}$

$20 : 2 = \underline{10}$

$2 : 2 = \underline{1}$

$18 : 3 = \underline{6}$

$40 : 4 = \underline{10}$

$36 : 4 = \underline{9}$

$15 : 3 = \underline{5}$

**33** Vypočítej.

a $7 \cdot 5 = \underline{35}$ **b** $8 \cdot 5 = \underline{40}$

$5 \cdot 2 = \underline{10}$ $5 \cdot 3 = \underline{15}$

$1 \cdot 5 = \underline{5}$ $2 \cdot 5 = \underline{10}$

$5 \cdot 4 = \underline{20}$ $5 \cdot 5 = \underline{25}$

$5 \cdot 8 = \underline{40}$ $5 \cdot 9 = \underline{45}$

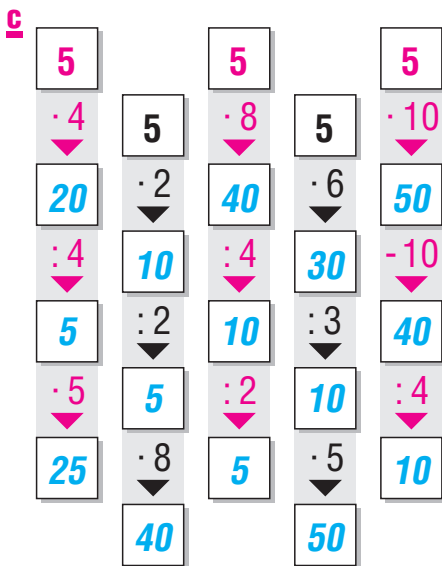
$3 \cdot 5 = \underline{15}$ $4 \cdot 5 = \underline{20}$

$5 \cdot 0 = \underline{0}$ $5 \cdot 1 = \underline{5}$

$9 \cdot 5 = \underline{45}$ $6 \cdot 5 = \underline{30}$

$5 \cdot 10 = \underline{50}$ $10 \cdot 5 = \underline{50}$

$5 \cdot 6 = \underline{30}$ $5 \cdot 7 = \underline{35}$

**34** Vypočítej.

a $5 \cdot 8 = \underline{40}$

b $7 \cdot 4 = \underline{28}$

c $5 \cdot 10 = \underline{50}$

d $2 \cdot 5 = \underline{10}$

$8 \cdot 4 = \underline{32}$

$5 \cdot 9 = \underline{45}$

$6 \cdot 4 = \underline{24}$

$10 \cdot 5 = \underline{50}$

$3 \cdot 2 = \underline{6}$

$2 \cdot 3 = \underline{6}$

$7 \cdot 2 = \underline{14}$

$8 \cdot 2 = \underline{16}$

$6 \cdot 5 = \underline{30}$

$10 \cdot 2 = \underline{20}$

$9 \cdot 5 = \underline{45}$

$9 \cdot 2 = \underline{18}$

$3 \cdot 8 = \underline{24}$

$7 \cdot 5 = \underline{35}$

$4 \cdot 4 = \underline{16}$

$5 \cdot 5 = \underline{25}$

$3 \cdot 10 = \underline{30}$

$3 \cdot 3 = \underline{9}$

$5 \cdot 6 = \underline{30}$

$3 \cdot 9 = \underline{27}$

$5 \cdot 0 = \underline{0}$

$6 \cdot 2 = \underline{12}$

$3 \cdot 6 = \underline{18}$

$3 \cdot 4 = \underline{12}$

$8 \cdot 5 = \underline{40}$

$5 \cdot 7 = \underline{35}$

$4 \cdot 5 = \underline{20}$

$3 \cdot 5 = \underline{15}$

$3 \cdot 7 = \underline{21}$

$9 \cdot 4 = \underline{36}$

$1 \cdot 5 = \underline{5}$

$2 \cdot 4 = \underline{8}$

$5 \cdot 4 = \underline{20}$

$5 \cdot 2 = \underline{10}$

$5 \cdot 1 = \underline{5}$

$5 \cdot 3 = \underline{15}$

35 Vypočítej a proveď zkoušku násobením. Pak doplňuj znaménka \odot .

a $10 : 5 = \underline{2}$	$\underline{2} \cdot 5 = 10$	b $20 \odot 5 = 4$	$30 \odot 5 = 6$
$25 : 5 = \underline{5}$	$\underline{5} \cdot 5 = 25$	$5 \odot 5 = 25$	$10 \odot 5 = 50$
$40 : 5 = \underline{8}$	$\underline{8} \cdot 5 = 40$	$40 \odot 5 = 8$	$15 \odot 5 = 3$
$5 : 5 = \underline{1}$	$\underline{1} \cdot 5 = 5$	$8 \odot 5 = 40$	$35 \odot 5 = 7$
$45 : 5 = \underline{9}$	$\underline{9} \cdot 5 = 45$	$25 \odot 5 = 5$	$6 \odot 5 = 30$
$30 : 5 = \underline{6}$	$\underline{6} \cdot 5 = 30$	$2 \odot 5 = 10$	$10 \odot 5 = 2$
$50 : 5 = \underline{10}$	$\underline{10} \cdot 5 = 50$	$5 \odot 5 = 1$	$45 \odot 5 = 9$
$15 : 5 = \underline{3}$	$\underline{3} \cdot 5 = 15$	$7 \odot 5 = 35$	$0 \odot 5 = 0$
$35 : 5 = \underline{7}$	$\underline{7} \cdot 5 = 35$	$9 \odot 5 = 45$	$5 \odot 6 = 30$
$20 : 5 = \underline{4}$	$\underline{4} \cdot 5 = 20$	$1 \odot 5 = 5$	$4 \odot 5 = 20$

36 Vypočítej.

a	b	c	d
$30 : 5 = \underline{6}$	$45 : 5 = \underline{9}$	$15 : 5 = \underline{3}$	$40 : 5 = \underline{8}$
$16 : 4 = \underline{4}$	$6 : 3 = \underline{2}$	$24 : 3 = \underline{8}$	$32 : 4 = \underline{8}$
$3 : 3 = \underline{1}$	$18 : 3 = \underline{6}$	$36 : 4 = \underline{9}$	$18 : 2 = \underline{9}$
$2 : 2 = \underline{1}$	$20 : 4 = \underline{5}$	$8 : 2 = \underline{4}$	$20 : 5 = \underline{4}$
$21 : 3 = \underline{7}$	$40 : 4 = \underline{10}$	$40 : 5 = \underline{8}$	$27 : 3 = \underline{9}$
$14 : 2 = \underline{7}$	$4 : 2 = \underline{2}$	$9 : 3 = \underline{3}$	$20 : 2 = \underline{10}$
$50 : 5 = \underline{10}$	$5 : 5 = \underline{1}$	$24 : 4 = \underline{6}$	$12 : 3 = \underline{4}$
$30 : 3 = \underline{10}$	$16 : 2 = \underline{8}$	$12 : 2 = \underline{6}$	$10 : 2 = \underline{5}$
$15 : 3 = \underline{5}$	$12 : 4 = \underline{3}$	$4 : 4 = \underline{1}$	$8 : 4 = \underline{2}$
$10 : 5 = \underline{2}$	$35 : 5 = \underline{7}$	$25 : 5 = \underline{5}$	$28 : 4 = \underline{7}$

2. Násobení a dělení v oboru násobilky

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19

37 Vypočítej.

a

$4 \cdot 5 = \underline{20}$

$5 : 5 = \underline{1}$

$5 \cdot 2 = \underline{10}$

$2 \cdot 7 = \underline{14}$

$4 \cdot 6 = \underline{24}$

$20 : 4 = \underline{5}$

$3 \cdot 3 = \underline{9}$

$12 : 3 = \underline{4}$

$8 : 2 = \underline{4}$

$16 : 4 = \underline{4}$

$2 \cdot 8 = \underline{16}$

$40 : 5 = \underline{8}$

$20 : 2 = \underline{10}$

$0 \cdot 3 = \underline{0}$

$24 : 3 = \underline{8}$

$3 \cdot 4 = \underline{12}$

$36 : 4 = \underline{9}$

$5 \cdot 10 = \underline{50}$

$2 \cdot 0 = \underline{0}$

$5 \cdot 1 = \underline{5}$

$3 \cdot 10 = \underline{30}$

b

$3 \cdot 2 = \underline{6}$

$10 : 5 = \underline{2}$

$4 \cdot 7 = \underline{28}$

$5 \cdot 3 = \underline{15}$

$40 : 4 = \underline{10}$

$4 \cdot 4 = \underline{16}$

$9 : 3 = \underline{3}$

$2 \cdot 6 = \underline{12}$

$10 : 2 = \underline{5}$

$12 : 4 = \underline{3}$

$3 \cdot 9 = \underline{27}$

$35 : 5 = \underline{7}$

$15 : 3 = \underline{5}$

$2 \cdot 1 = \underline{2}$

$24 : 4 = \underline{6}$

$5 \cdot 0 = \underline{0}$

$5 \cdot 9 = \underline{45}$

$3 \cdot 5 = \underline{15}$

$45 : 5 = \underline{9}$

$18 : 2 = \underline{9}$

$2 \cdot 9 = \underline{18}$

38 Vypočítej.

a

$4 \cdot 8 = \underline{32}$

$15 : 5 = \underline{3}$

$5 \cdot 5 = \underline{25}$

$6 : 3 = \underline{2}$

$3 \cdot 1 = \underline{3}$

$27 : 3 = \underline{9}$

$5 \cdot 4 = \underline{20}$

$12 : 2 = \underline{6}$

$8 : 4 = \underline{2}$

$4 \cdot 3 = \underline{12}$

$30 : 5 = \underline{6}$

$2 \cdot 2 = \underline{4}$

$18 : 3 = \underline{6}$

$16 : 2 = \underline{8}$

$3 \cdot 6 = \underline{18}$

$28 : 4 = \underline{7}$

$2 \cdot 10 = \underline{20}$

$50 : 5 = \underline{10}$

$4 \cdot 0 = \underline{0}$

$5 \cdot 8 = \underline{40}$

$2 \cdot 5 = \underline{10}$

b

$3 \cdot 8 = \underline{24}$

$5 \cdot 6 = \underline{30}$

$3 \cdot 0 = \underline{0}$

$20 : 5 = \underline{4}$

$3 : 3 = \underline{1}$

$2 \cdot 3 = \underline{6}$

$4 \cdot 9 = \underline{36}$

$4 : 4 = \underline{1}$

$25 : 5 = \underline{5}$

$4 \cdot 2 = \underline{8}$

$14 : 2 = \underline{7}$

$2 : 2 = \underline{1}$

$3 \cdot 7 = \underline{21}$

$30 : 3 = \underline{10}$

$21 : 3 = \underline{7}$

$4 \cdot 10 = \underline{40}$

$4 : 2 = \underline{2}$

$5 \cdot 7 = \underline{35}$

$2 \cdot 4 = \underline{8}$

$32 : 4 = \underline{8}$

$4 \cdot 1 = \underline{4}$

39 Vypočítej.

a $1 \cdot 2 = \underline{2}$ $0 \cdot 9 = \underline{0}$

$1 \cdot 6 = \underline{6}$ $4 \cdot 0 = \underline{0}$

$0 \cdot 1 = \underline{0}$ $0 \cdot 0 = \underline{0}$

$1 \cdot 1 = \underline{1}$ $6 \cdot 0 = \underline{0}$

$2 \cdot 1 = \underline{2}$ $8 \cdot 0 = \underline{0}$

$5 \cdot 1 = \underline{5}$ $0 \cdot 3 = \underline{0}$

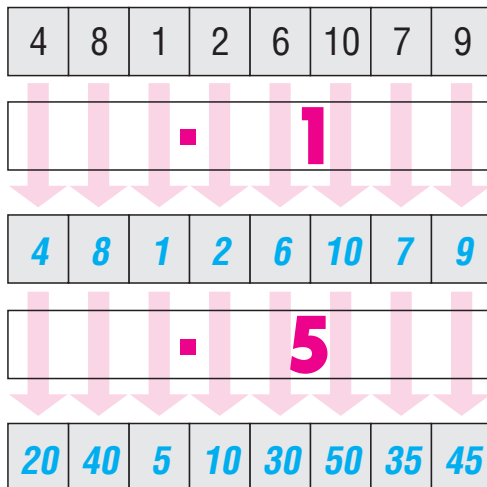
$1 \cdot 7 = \underline{7}$ $3 \cdot 0 = \underline{0}$

$9 \cdot 1 = \underline{9}$ $0 \cdot 10 = \underline{0}$

$7 \cdot 1 = \underline{7}$ $0 \cdot 4 = \underline{0}$

$1 \cdot 5 = \underline{5}$ $0 \cdot 8 = \underline{0}$

b



40 Doplň správně tabulky.

a

·	5	7	4	6	3	8	9	2	10	1
·	1	1	1	1	1	0	0	0	0	0
=	5	7	4	6	3	0	0	0	0	0

b

·	10	6	4	2	0	9	1	3	5	8
·	5	5	5	5	5	5	5	5	5	5
=	50	30	20	10	0	45	5	15	25	40

c

·	5	4	6	3	7	2	8	1	9	0
·	10	10	10	10	10	10	10	10	10	10
=	50	40	60	30	70	20	80	10	90	0



41 Vypočítej a proveď zkoušku násobením. Pak doplňuj znaménka .

a $2 : 1 = \underline{2}$ $1 \cdot \underline{2} = 2$ **b** $9 \div 1 = 9$ $1 \cdot 10 = 10$
 $4 : 1 = \underline{4}$ $1 \cdot \underline{4} = 4$ $1 \div 1 = 1$ $8 \cdot 1 = 8$
 $6 : 1 = \underline{6}$ $1 \cdot \underline{6} = 6$ $7 \div 1 = 7$ $10 \cdot 1 = 10$
 $9 : 1 = \underline{9}$ $1 \cdot \underline{9} = 9$ $8 \div 1 = 8$ $6 \cdot 1 = 6$
 $1 : 1 = \underline{1}$ $1 \cdot \underline{1} = 1$ $5 \div 1 = 5$ $7 \cdot 1 = 7$
 $0 : 1 = \underline{0}$ $1 \cdot \underline{0} = 0$ $9 \div 1 = 9$ $4 \cdot 1 = 4$
 $0 : 5 = \underline{0}$ $5 \cdot \underline{0} = 0$ $3 \div 1 = 3$ $5 \cdot 1 = 5$
 $0 : 7 = \underline{0}$ $7 \cdot \underline{0} = 0$ $6 \div 1 = 6$ $2 \cdot 1 = 2$
 $0 : 10 = \underline{0}$ $10 \cdot \underline{0} = 0$ $1 \div 1 = 1$ $4 \cdot 1 = 4$
 $0 : 9 = \underline{0}$ $9 \cdot \underline{0} = 0$ $3 \div 1 = 3$ $0 \cdot 1 = 0$

42 Doplň správně tabulky.

a

	2	6	3	10	1	9	0	8	7	4
:	1	1	1	1	1	1	1	1	1	1
=	2	6	3	10	1	9	0	8	7	4

b

	24	0	12	16	32	20	40	36	28	8
:	4	4	4	4	4	4	4	4	4	4
=	6	0	3	4	8	5	10	9	7	2

c

	15	18	27	0	30	6	3	12	9	21
:	3	3	3	3	3	3	3	3	3	3
=	5	6	9	0	10	2	1	4	3	7

43 Vypočítej.**a**

$4 : 1 = \underline{4}$

$18 : 3 = \underline{6}$

$2 \cdot 8 = \underline{16}$

$7 \cdot 4 = \underline{28}$

$20 : 2 = \underline{10}$

$16 : 4 = \underline{4}$

$1 \cdot 7 = \underline{7}$

$25 : 5 = \underline{5}$

$2 \cdot 9 = \underline{18}$

$5 \cdot 8 = \underline{40}$

$3 : 1 = \underline{3}$

$40 : 4 = \underline{10}$

$15 : 3 = \underline{5}$

$5 \cdot 2 = \underline{10}$

$6 \cdot 4 = \underline{24}$

$1 \cdot 0 = \underline{0}$

$15 : 5 = \underline{3}$

$3 \cdot 10 = \underline{30}$

$3 \cdot 6 = \underline{18}$

$10 : 1 = \underline{10}$

$8 : 2 = \underline{4}$

b

$2 \cdot 7 = \underline{14}$

$1 \cdot 6 = \underline{6}$

$21 : 3 = \underline{7}$

$2 \cdot 10 = \underline{20}$

$8 \cdot 4 = \underline{32}$

$20 : 4 = \underline{5}$

$2 : 1 = \underline{2}$

$36 : 4 = \underline{9}$

$5 : 1 = \underline{5}$

$3 \cdot 3 = \underline{9}$

$9 : 1 = \underline{9}$

$30 : 5 = \underline{6}$

$1 \cdot 1 = \underline{1}$

$12 : 3 = \underline{4}$

$18 : 2 = \underline{9}$

$5 \cdot 4 = \underline{20}$

$2 \cdot 2 = \underline{4}$

$3 \cdot 7 = \underline{21}$

$10 : 2 = \underline{5}$

$5 \cdot 6 = \underline{30}$

$1 \cdot 8 = \underline{8}$

44 Vypočítej.**a**

$2 \cdot 6 = \underline{12}$

$3 \cdot 4 = \underline{12}$

$1 \cdot 5 = \underline{5}$

$6 : 3 = \underline{2}$

$2 : 2 = \underline{1}$

$1 : 1 = \underline{1}$

$24 : 3 = \underline{8}$

$16 : 2 = \underline{8}$

$5 \cdot 7 = \underline{35}$

$1 \cdot 2 = \underline{2}$

$5 \cdot 9 = \underline{45}$

$35 : 5 = \underline{7}$

$6 : 1 = \underline{6}$

$9 : 3 = \underline{3}$

$2 \cdot 3 = \underline{6}$

$4 \cdot 4 = \underline{16}$

$12 : 2 = \underline{6}$

$24 : 4 = \underline{8}$

$1 \cdot 9 = \underline{9}$

$9 \cdot 4 = \underline{36}$

$3 \cdot 8 = \underline{24}$

b

$0 : 1 = \underline{0}$

$2 \cdot 5 = \underline{10}$

$3 : 3 = \underline{1}$

$1 \cdot 4 = \underline{4}$

$3 \cdot 5 = \underline{15}$

$4 : 2 = \underline{2}$

$1 \cdot 3 = \underline{3}$

$32 : 4 = \underline{8}$

$2 \cdot 4 = \underline{8}$

$5 \cdot 3 = \underline{15}$

$8 : 1 = \underline{8}$

$5 \cdot 10 = \underline{50}$

$6 : 2 = \underline{3}$

$5 \cdot 5 = \underline{25}$

$27 : 3 = \underline{9}$

$7 : 1 = \underline{7}$

$40 : 5 = \underline{8}$

$14 : 2 = \underline{7}$

$1 \cdot 10 = \underline{10}$

$28 : 4 = \underline{7}$

$3 \cdot 9 = \underline{27}$

**45** Vypočítej řetězce.

$$2 \cdot 8 \triangleright 16 : 4 \triangleright 4 \cdot 3 \triangleright 12 : 2 \triangleright 6 \cdot 5 \triangleright 30$$

$$3 \cdot 4 \triangleright 12 : 2 \triangleright 6 : 2 \triangleright 3 \cdot 10 \triangleright 30 : 5 \triangleright 6$$

$$4 \cdot 5 \triangleright 20 : 2 \triangleright 10 : 5 \triangleright 2 \cdot 4 \triangleright 8 \cdot 4 \triangleright 32$$

$$5 \cdot 3 \triangleright 15 : 5 \triangleright 3 \cdot 6 \triangleright 18 : 2 \triangleright 9 : 3 \triangleright 3$$

$$1 \cdot 5 \triangleright 5 \cdot 4 \triangleright 20 : 2 \triangleright 10 \cdot 3 \triangleright 30 : 5 \triangleright 6$$

$$24 : 6 \triangleright 4 \cdot 4 \triangleright 16 : 2 \triangleright 8 \cdot 3 \triangleright 24 : 4 \triangleright 6$$

$$35 : 5 \triangleright 7 \cdot 2 \triangleright 14 : 7 \triangleright 2 \cdot 9 \triangleright 18 : 3 \triangleright 6$$

$$36 : 4 \triangleright 9 : 3 \triangleright 3 \cdot 5 \triangleright 15 : 3 \triangleright 5 \cdot 9 \triangleright 45$$

46 Doplň správně tabulky.**a** $\cdot =$

50	5	10
14	2	7
20	4	5
6	2	3
16	2	8
10	5	2
12	2	6
24	6	4
5	5	1

b $\cdot =$

4	1	4
3	5	15
2	5	10
9	5	45
2	9	18
4	2	8
3	6	18
2	4	8
8	5	40

c $: =$

15	5	3
9	3	3
28	7	4
20	10	2
16	4	4
4	1	4
20	5	4
12	4	3
32	8	4

d $\cdot =$

6	5	30
3	9	27
4	3	12
1	4	4
5	5	25
2	2	4
4	9	36
3	10	30
4	4	16

3. Procvičování a opakování

24

M 2/3, str. 56 – 61

47 Zopakuj si.

a	b	c	d
$60 - 8 = \underline{52}$	$34 + 60 = \underline{94}$	$80 + 11 = \underline{91}$	$50 - 1 = \underline{49}$
$27 + 20 = \underline{47}$	$50 + 16 = \underline{66}$	$70 - 17 = \underline{53}$	$70 + 22 = \underline{92}$
$20 - 9 = \underline{11}$	$100 - 5 = \underline{95}$	$80 - 4 = \underline{76}$	$38 + 40 = \underline{78}$
$45 + 50 = \underline{95}$	$60 - 51 = \underline{9}$	$20 + 36 = \underline{56}$	$30 - 16 = \underline{14}$
$90 - 71 = \underline{19}$	$10 - 8 = \underline{2}$	$44 + 30 = \underline{74}$	$13 + 80 = \underline{93}$
$50 - 33 = \underline{17}$	$56 + 10 = \underline{66}$	$40 - 2 = \underline{38}$	$10 - 7 = \underline{3}$
$35 + 60 = \underline{95}$	$90 + 9 = \underline{99}$	$28 + 70 = \underline{98}$	$7 + 90 = \underline{97}$
$40 - 25 = \underline{15}$	$70 - 7 = \underline{63}$	$20 - 14 = \underline{6}$	$80 - 42 = \underline{38}$
$11 + 80 = \underline{91}$	$30 + 31 = \underline{61}$	$24 + 70 = \underline{94}$	$100 - 54 = \underline{46}$
$40 + 52 = \underline{92}$	$30 - 6 = \underline{24}$	$60 + 36 = \underline{96}$	$10 + 24 = \underline{34}$

48 Vymýšlej příklady a zapisuj je podle vzoru.

a			b		
35			40		
5	·	7	5	·	8
40	-	5	40	-	0
30	+	5	30	+	10
75	-	40	75	-	35
7	·	5	8	·	5
31	+	4	31	+	9
20	+	15	20	+	20
10	+	25	10	·	4

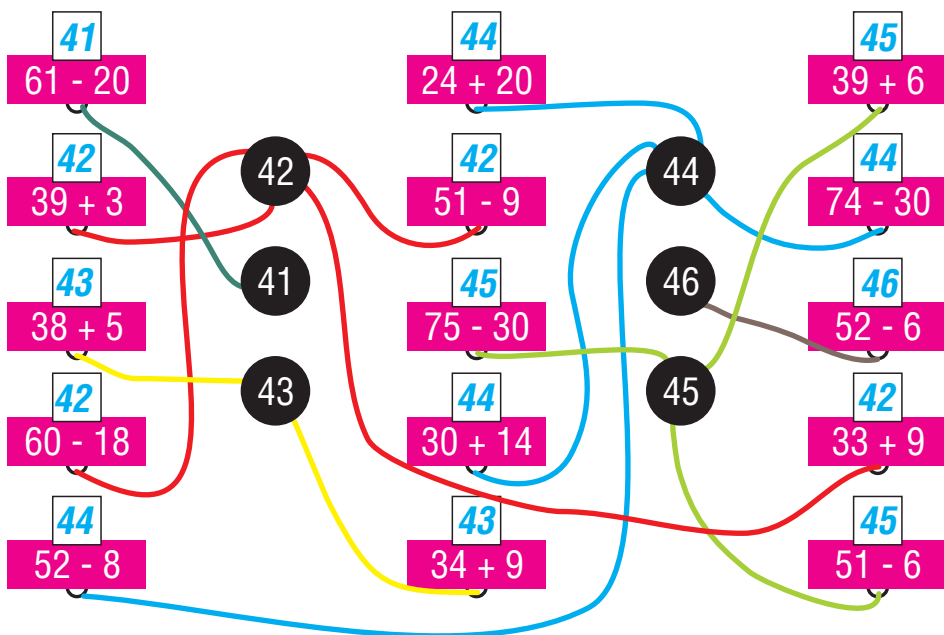
24			18		
3	·	8	2	·	9
20	+	4	10	+	8
14	+	10	68	-	50
70	-	46	13	+	5
4	·	6	38	-	20
8	·	3	1	·	18
30	-	6	19	-	1
4	+	20	9	·	2



49 Počítej a zapisuj výsledky.

a	b	c	d
$21 + 9 = \underline{30}$	$94 + 6 = \underline{100}$	$100 - 1 = \underline{99}$	$60 - 9 = \underline{51}$
$30 - 1 = \underline{29}$	$50 - 2 = \underline{48}$	$37 + 3 = \underline{40}$	$93 + 7 = \underline{100}$
$76 + 5 = \underline{81}$	$48 + 2 = \underline{50}$	$84 - 7 = \underline{77}$	$88 + 5 = \underline{93}$
$83 + 7 = \underline{90}$	$48 + 8 = \underline{56}$	$80 - 2 = \underline{78}$	$30 - 6 = \underline{24}$
$23 + 8 = \underline{31}$	$90 - 9 = \underline{81}$	$22 + 8 = \underline{30}$	$73 + 4 = \underline{81}$
$70 - 3 = \underline{67}$	$90 - 8 = \underline{82}$	$26 + 6 = \underline{32}$	$40 - 3 = \underline{37}$
$36 + 4 = \underline{40}$	$85 + 5 = \underline{90}$	$45 + 9 = \underline{54}$	$51 - 4 = \underline{47}$
$40 - 6 = \underline{34}$	$33 - 9 = \underline{24}$	$65 + 5 = \underline{70}$	$85 - 8 = \underline{77}$
$65 - 7 = \underline{58}$	$71 + 9 = \underline{80}$	$70 - 8 = \underline{62}$	$60 - 1 = \underline{59}$
$62 + 8 = \underline{70}$	$20 - 4 = \underline{16}$	$30 - 5 = \underline{25}$	$41 + 9 = \underline{50}$

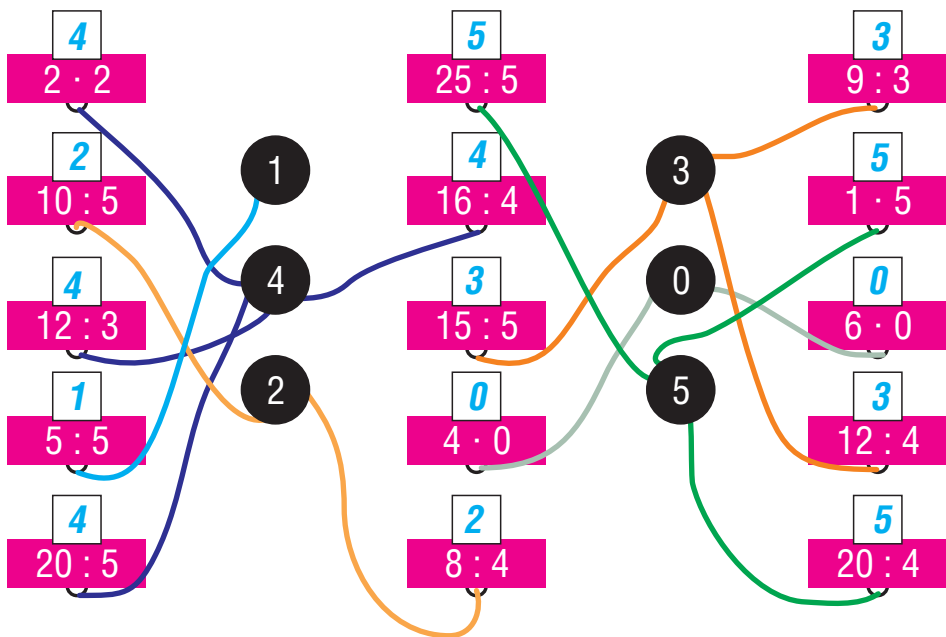
50 Spoj příklady se správnými výsledky.



51 Vypočítej.

a	b	c
$65 - 9 = \underline{56}$	$65 - 7 = \underline{58}$	$53 - (11 - 7) = \underline{53 - 4} = \underline{49}$
$76 + 5 = \underline{81}$	$26 + 6 = \underline{32}$	$61 - (14 - 7) = \underline{61 - 7} = \underline{54}$
$51 - 4 = \underline{47}$	$51 - 7 = \underline{44}$	$17 + (12 - 5) = \underline{17 + 7} = \underline{24}$
$48 + 8 = \underline{56}$	$56 - 7 = \underline{49}$	$88 - (13 - 9) = \underline{88 - 4} = \underline{84}$
$23 + 8 = \underline{31}$	$76 + 8 = \underline{84}$	$(75 + 6) + 9 = \underline{81 + 9} = \underline{90}$
$37 + 9 = \underline{46}$	$37 + 4 = \underline{41}$	$(75 + 6) - 9 = \underline{81 - 9} = \underline{72}$
$56 - 8 = \underline{48}$	$22 + 9 = \underline{31}$	$(75 - 6) + 9 = \underline{69 + 9} = \underline{78}$
$33 - 9 = \underline{24}$	$84 - 7 = \underline{77}$	$(75 - 9) - 9 = \underline{66 - 9} = \underline{57}$
$73 - 8 = \underline{65}$	$85 - 8 = \underline{77}$	$(24 + 8) - 6 = \underline{32 - 6} = \underline{26}$
$88 + 5 = \underline{93}$	$45 + 9 = \underline{56}$	$24 + (8 - 6) = \underline{24 + 2} = \underline{26}$

52 Spoj příklady se správnými výsledky.



3. Procvičování a opakování

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53 Vypočítej.

a	b	c
$5 \cdot 4 = \underline{20}$	$10 : 2 = \underline{5}$	$(4 \cdot 3) : 2 = \underline{12 : 2} = \underline{6}$
$6 \cdot 3 = \underline{18}$	$28 : 4 = \underline{7}$	$(5 \cdot 4) : 2 = \underline{20 : 2} = \underline{10}$
$16 : 4 = \underline{4}$	$9 \cdot 4 = \underline{36}$	$(4 \cdot 6) : 3 = \underline{24 : 3} = \underline{8}$
$7 \cdot 0 = \underline{0}$	$40 : 4 = \underline{10}$	$(2 \cdot 10) : 4 = \underline{20 : 4} = \underline{5}$
$40 : 5 = \underline{8}$	$3 \cdot 4 = \underline{12}$	$(8 \cdot 2) : 4 = \underline{16 : 4} = \underline{4}$
$5 \cdot 3 = \underline{15}$	$24 : 8 = \underline{3}$	$6 \cdot (15 : 3) = \underline{6 \cdot 5} = \underline{30}$
$4 \cdot 1 = \underline{4}$	$5 \cdot 6 = \underline{30}$	$9 \cdot (12 : 3) = \underline{9 \cdot 4} = \underline{36}$
$14 : 2 = \underline{7}$	$21 : 3 = \underline{7}$	$5 \cdot (18 : 2) = \underline{5 \cdot 9} = \underline{45}$
$32 : 4 = \underline{8}$	$4 \cdot 4 = \underline{16}$	$2 \cdot (40 : 5) = \underline{2 \cdot 8} = \underline{16}$
$45 : 5 = \underline{9}$	$2 \cdot 0 = \underline{0}$	$7 \cdot (50 : 10) = \underline{7 \cdot 5} = \underline{35}$

54 Vypočítej řetězce.

a

$41 \xrightarrow{+4} 45 \xrightarrow{+6} 51 \xrightarrow{-8} 43 \xrightarrow{-5} 38 \xrightarrow{+20} 58 \xrightarrow{+4} 62$

$62 \xleftarrow{-10} 52 \xleftarrow{-20} 32 \xleftarrow{+9} 41 \xleftarrow{+8} 54 \xleftarrow{-6} 60 \xleftarrow{-2} 58$

b

$63 \xrightarrow{-5} 58 \xrightarrow{-30} 28 \xrightarrow{+40} 68 \xrightarrow{-9} 59 \xrightarrow{+4} 63 \xrightarrow{-20} 43$

$43 \xleftarrow{-20} 23 \xleftarrow{-7} 30 \xleftarrow{-8} 38 \xleftarrow{-20} 58 \xleftarrow{+34} 24 \xleftarrow{+7} 31$

3. Procvičování a opakování

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57 Najdi a oprav chyby ve výsledcích.

a

$$24 : 3 = 8$$
$$2 \cdot 9 = \cancel{18} \ 18$$
$$3 \cdot 10 = 30$$
$$12 : 2 = 6$$
$$43 - 30 = \cancel{28} \ 13$$
$$16 : 4 = \cancel{5} \ 4$$
$$38 + 7 = 45$$
$$87 - 9 = \cancel{68} \ 78$$
$$5 \cdot 3 = 15$$
$$5 : 5 = \cancel{5} \ 1$$

b

$$3 \cdot 4 = \cancel{15} \ 12$$
$$5 \cdot 6 = 30$$
$$91 + 8 = \cancel{100} \ 99$$
$$27 : 3 = \cancel{8} \ 9$$
$$20 : 5 = 4$$
$$73 + 8 = \cancel{82} \ 81$$
$$24 : 4 = 6$$
$$56 + 6 = \cancel{72} \ 62$$
$$5 \cdot 8 = 40$$
$$4 \cdot 9 = \cancel{34} \ 36$$

c

$$16 : 2 = \cancel{7} \ 8$$
$$4 \cdot 7 = 28$$
$$35 : 5 = 7$$
$$53 - 8 = 45$$
$$27 + 9 = 36$$
$$15 : 3 = \cancel{6} \ 5$$
$$4 \cdot 6 = 24$$
$$8 : 2 = 4$$
$$7 : 1 = \cancel{1} \ 7$$
$$5 \cdot 9 = \cancel{46} \ 45$$

58 Dopln chybějící čísla.

a

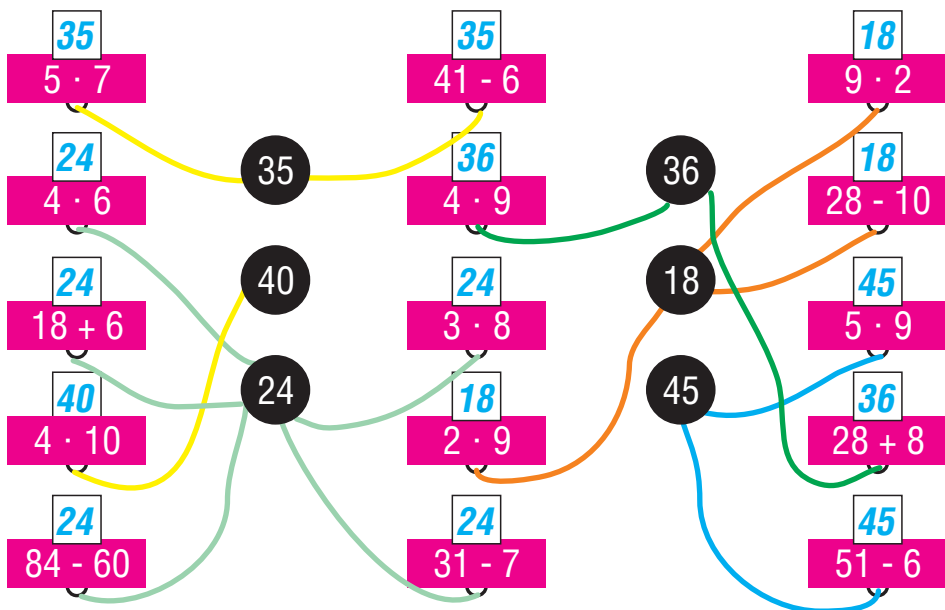
$$4 \cdot \boxed{3}$$
$$23 - \boxed{11}$$
$$52 - \boxed{40}$$
$$3 \cdot \boxed{4}$$
$$12$$
$$2 \cdot \boxed{6}$$
$$72 - \boxed{60}$$
$$6 + \boxed{6}$$
$$6 \cdot \boxed{2}$$

b

$$31 - \boxed{7}$$
$$6 \cdot \boxed{4}$$
$$3 \cdot \boxed{8}$$
$$33 - \boxed{9}$$
$$24$$
$$18 + \boxed{6}$$
$$14 + \boxed{10}$$
$$44 - \boxed{20}$$
$$4 \cdot \boxed{6}$$

59 Doplně znaménka početních úkonů.

a	b	c	d
$2 \ominus 7 = 14$	$10 \ominus 5 = 5$	$1 \ominus 6 = 6$	$4 \ominus 4 = 16$
$24 \ominus 4 = 6$	$46 \ominus 39 = 7$	$36 \ominus 4 = 9$	$21 \ominus 3 = 7$
$43 \ominus 30 = 13$	$2 \ominus 9 = 18$	$4 \ominus 9 = 36$	$62 \oplus 20 = 82$
$4 \ominus 5 = 20$	$81 \ominus 41 = 40$	$89 \oplus 6 = 95$	$3 \ominus 8 = 24$
$28 \oplus 5 = 33$	$93 \ominus 88 = 5$	$2 \ominus 1 = 2$	$45 \ominus 5 = 9$
$60 \ominus 8 = 52$	$5 \ominus 7 = 35$	$43 \oplus 50 = 93$	$72 \ominus 3 = 69$
$4 \ominus 0 = 0$	$68 \oplus 4 = 72$	$3 \ominus 6 = 18$	$4 \ominus 8 = 32$
$24 \ominus 3 = 8$	$16 \ominus 4 = 4$	$72 \ominus 10 = 62$	$28 \ominus 4 = 7$
$26 \oplus 9 = 35$	$1 \ominus 7 = 7$	$18 \ominus 2 = 9$	$27 \ominus 3 = 9$
$5 \ominus 6 = 30$	$35 \ominus 7 = 5$	$5 \ominus 8 = 40$	$0 \ominus 5 = 0$

60 Spoj příklady se správnými výsledky.

**61** Vypočítej.

a	b	c	d
$20 + \underline{75} = 95$	$60 - \underline{6} = 54$	$20 + \underline{72} = 92$	$30 + \underline{54} = 84$
$49 + \underline{30} = 79$	$46 - \underline{30} = 16$	$70 - \underline{48} = 22$	$70 - \underline{18} = 52$
$50 + \underline{22} = 72$	$40 - \underline{26} = 14$	$60 - \underline{24} = 36$	$59 + \underline{40} = 99$
$22 + \underline{40} = 62$	$28 - \underline{0} = 28$	$100 - \underline{55} = 45$	$50 - \underline{22} = 28$
$40 + \underline{41} = 81$	$20 - \underline{6} = 14$	$19 + \underline{30} = 49$	$36 - \underline{20} = 16$
$30 + \underline{65} = 95$	$30 - \underline{16} = 14$	$50 - \underline{2} = 48$	$29 - \underline{29} = 0$
$66 + \underline{30} = 96$	$58 - \underline{40} = 18$	$72 + \underline{20} = 92$	$70 + \underline{28} = 98$
$15 + \underline{60} = 75$	$91 - \underline{10} = 81$	$80 + \underline{15} = 95$	$13 + \underline{50} = 63$
$10 + \underline{34} = 44$	$70 - \underline{12} = 58$	$25 - \underline{20} = 5$	$40 - \underline{32} = 8$
$70 + \underline{19} = 89$	$80 - \underline{36} = 44$	$25 + \underline{50} = 75$	$35 + \underline{40} = 75$

62 Vypočítej.

a	b
$(9 \cdot 2) - (2 \cdot 4) = \underline{18 - 8 = 10}$	$(5 \cdot 4) - (15 : 3) = \underline{20 - 5 = 15}$
$(5 : 5) \cdot (3 \cdot 3) = \underline{1 \cdot 9 = 9}$	$(16 - 2) : (20 : 10) = \underline{14 : 2 = 7}$
$(3 \cdot 0) + (25 : 5) = \underline{0 + 5 = 5}$	$(14 + 2) - (2 \cdot 4) = \underline{16 - 8 = 8}$
$(16 : 2) : (10 : 5) = \underline{8 : 2 = 4}$	$(18 : 3) \cdot (6 : 2) = \underline{6 \cdot 3 = 18}$
$(36 - 8) + (0 \cdot 5) = \underline{28 - 0 = 28}$	$(100 - 80) : (12 : 3) = \underline{20 : 4 = 5}$
$(20 : 4) : (10 : 2) = \underline{5 : 5 = 1}$	$(3 \cdot 6) + (5 \cdot 6) = \underline{18 + 30 = 48}$
$(11 - 9) \cdot (6 : 3) = \underline{2 \cdot 2 = 4}$	$(2 \cdot 7) + (4 \cdot 8) = \underline{14 + 32 = 46}$
$(15 + 5) : (13 - 8) = \underline{20 : 5 = 4}$	$(20 : 4) \cdot (2 \cdot 2) = \underline{5 \cdot 4 = 20}$
$(4 \cdot 5) - (16 : 4) = \underline{20 - 4 = 16}$	$(5 \cdot 7) - (5 \cdot 3) = \underline{35 - 15 = 20}$
$(40 - 8) : (12 : 3) = \underline{32 : 4 = 8}$	$(36 : 4) : (3 \cdot 3) = \underline{9 : 9 = 1}$

63 Vypočítej příklady a pomocí tabulky získáš tajenku.

$(27 + 30) - 4 =$ <u>53</u>	V	$(2 \cdot 5) + 90 =$ <u>100</u>	T
$(20 + 8) : 4 =$ <u>7</u>	Ý	$32 + (5 \cdot 8) =$ <u>72</u>	Ř
$11 + (70 - 19) =$ <u>62</u>	B	$(24 : 3) : 4 =$ <u>2</u>	E
$5 \cdot (20 : 4) =$ <u>25</u>	O	$50 + (5 \cdot 10) =$ <u>100</u>	T
$(50 + 36) - 70 =$ <u>16</u>	R	$(7 \cdot 5) - 30 =$ <u>5</u>	Í
$24 : (9 : 3) =$ <u>8</u>	N	$(50 - 40) + 90 =$ <u>100</u>	T
$(64 - 40) : 4 =$ <u>6</u>	Ě	$100 - (4 \cdot 7) =$ <u>72</u>	Ř
$64 - (40 : 4) =$ <u>54</u>	!	$(60 - 45) : 3 =$ <u>5</u>	Í
$(3 \cdot 10) + 51 =$ <u>81</u>	H	$(20 - 18) \cdot 5 =$ <u>10</u>	D
$72 - (5 \cdot 10) =$ <u>22</u>	U	$(6 : 3) \cdot 0 =$ <u>0</u>	Y
$(8 : 2) \cdot 4 =$ <u>16</u>	R	$(5 \cdot 4) + 34 =$ <u>54</u>	!
$60 + (4 \cdot 4) =$ <u>76</u>	Á		
$40 : (12 : 3) =$ <u>10</u>	D		
$(75 - 70) \cdot 5 =$ <u>25</u>	O		

0	2	5	6	7	8	10	16	22	25	53	54	62	72	76	81	100
Y	E	Í	Ě	Ý	N	D	R	U	O	V	!	B	Ř	Á	H	T

Soutěžní karta č. 2

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