NARAVNA ŠTEVILA

1. a) $(13 \cdot 7) \cdot 2$ ali $13(7 \cdot 2) = 182$

b) $(25 \cdot 8) \cdot 11$ $\quad 25(8 \cdot 11) = 25 \cdot (8+80) = 25 \cdot 8 + 25 \cdot 80 = 2{,}200$

c) $(35 \cdot 37) \cdot 27$ $\quad 35 \cdot (37 \cdot 27) = 35 \cdot (37 \cdot 20 + 37 \cdot 7) = 35 \cdot (740 + 259) = 999 \cdot 35 = 34.965$

2. a) $(5 \cdot 2) \cdot 19 = 190$

b) $(4 \cdot 5) \cdot 21 = 21 \cdot 2 \cdot 10 = 42 \cdot 10 = 420$

c) $4 \cdot 23 \cdot 25 = (4 \cdot 25) \cdot 23 = 2{,}300$

č) $(20 \cdot 5) 89 = 8900$

d) $(8 \cdot 125) \cdot 7 = 7000$

e) $(25 \cdot 4) \cdot (8 \cdot 125) = 10{,}000$

3. a) $3 + 4 \cdot 5 = 23$

b) $(3+4) \cdot 5 = 35$

c) $7 \cdot 6 + 8 = 50$

č) $7 \cdot (6+8) = 98$

d) $8 + 2 \cdot 3 \cdot 5 = 38$

e) $(8+2) \cdot 3 \cdot 5 = 150$

f) $14 + 6 \cdot 2 \cdot 3 + 7 = 57$

g) $(14+6) \cdot 2 \cdot (3+7) = 400$

h) $4 + 6 \cdot 9 + 11 \cdot 4 = 102$

i) $(4+6)(9+11) \cdot 4 = 800$

4. a) $5 \cdot 42 - 12 \cdot 4 = 162$

b) $83 - 13 \cdot 6 + 14 = 19$

c) $62 \cdot 6 + 99 - 19 \cdot 7 + 23 \cdot 4 = 372 + 99 - 133 + 92 = 430$

č) $2 \cdot (7 + 3 \cdot (4 \cdot 9 + 12 \cdot 3)) = 2 \cdot (7 + 3(36 + 36)) = 446$

d) $((5+9 \cdot 3) \cdot 4 + 7 \cdot (2+6)) \cdot 3 + 2 = ((5+27) \cdot 4 + 7 \cdot 8)) \cdot 3 + 2 = (32 \cdot 4 + 56) \cdot 3 + 2 = 554$

e) $13 + 2 \cdot (6 \cdot (11 + 3 \cdot 2) + 9 \cdot 7) = 13 + 2(102 + 63) = 343$

f) $(4 \cdot 3 + 2) \cdot (17 - 4 + 2 \cdot (7+9)) = 1400$

$68 \quad 32$

100

5. a) $(13 \cdot 6) + (17 \cdot 3) = 129$ ✓ (78, 51)

b) $7 + (3 \cdot 4) + 6 = 25$ ✓

c) $(7+3) \cdot (4 \cdot 6) = 100$

č) $37 - 7 \cdot 4 + 5 = 14$ ✓

d) $14 \cdot (6+7+8 \cdot 9) \cdot 3 = 356$

e) $3(91 - 11 \cdot 6) = 75$

6. a) $7 + 14 \cdot 4 + 16 \cdot 5 = 7 + 56 + 80 = 143$

b) $7 \cdot (3 + 5 \cdot (12+7)) = 7 \cdot (3 + 5 \cdot 19) = 7 \cdot (3 + 95) = 7 \cdot 98 = 686$

c) $(12 \cdot 4 + 3 \cdot (7 + 9 \cdot 2)) \cdot (13 \cdot 3 + 2) = (48 + 3 \cdot (25)) \cdot (41) = 5043$

č) $6 \cdot 3 + 2 \cdot (6 \cdot (9 + 3 \cdot (3 + 8 \cdot 5))) = 18 + 2 \cdot 828 = 1674$

d) $(12 + (3 + 7 \cdot (5 + 4(3 + 9), 2))) \cdot 2 + 16 \cdot 4 = 1508$ (12, 64)

7. a) $6x$

b) $2x + 8$

c) $a + 5$

č) $3z$

d) $5u + 3v$

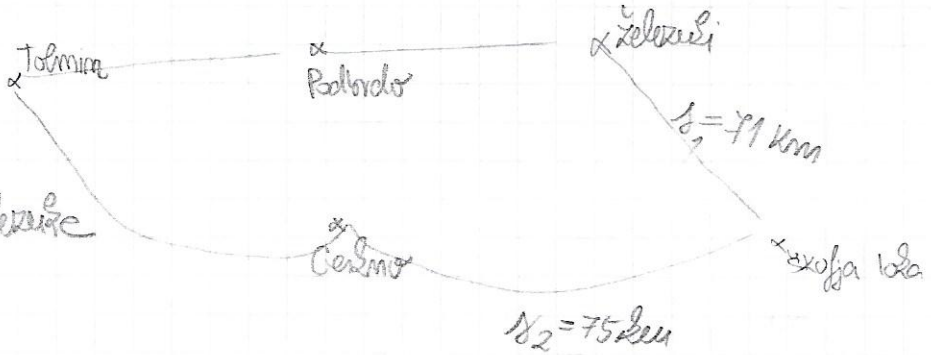
e) $4(2+a)$

f) $2a = a + b$

g) $3(x+y) = y + 19$

h) $(3+x) \cdot (x+5)$

8.) Skozi železniške postaje



9. a) $\Sigma_A = 831$ kg $\Sigma_B = 905$ kg $\Sigma_C = 869$ $\Sigma_Č = 868$ kg $\Sigma_D = 886$ kg

b) $\Sigma_{1.dan} = 1389$ kg $\Sigma_{2.dan} = 1456$ kg $\Sigma_{3.dan} = 1514$ kg

c) $\Sigma_{vsi} = 4368$ kg

10. a) $2a + 3(4a) = 2a + 12a = 14a$

b) $8 + 4 \cdot (3x) + 3 \cdot 7 + x + 5x = 8 + 12x + 21 + 6x = 29 + 18x$

c) $7a + 3 \cdot (5b) + 6 \cdot (2a) + b = 7a + 15b + 12a + b = 19a + 16b$

č) $3a + 4(a + 3b) + b = 3a + 4a + 12b + b = 7a + 13b$

d) $b + 3 \cdot (7a + 3b) + 4a + b = 4a + 2b + 21a + 9b = 25a + 11b$

e) $3(x + 2y) + 6 + 3(3x + 4y) + 3 \cdot 5 = 3x + 6y + 6 + 9x + 12y + 15 = 12x + 18y + 21$

11. a) $7(3x + 1) = 21x + 7$

b) $8(3x + 2y + 5) = 24x + 16y + 40$

c) $2x(3y + 6) = 6xy + 12x$

č) $(a + 1)(b + 2) = ab + 2a + b + 2$

d) $(3a + 4)(5b + 2) = 15ab + 6a + 20b + 8$

e) $(3x + 2y)(5z + 4w) = 15xz + 12xw + 10yz + 8yw$

12. a) $10a + 30 = 10(a + 3)$

b) $12u + 6 = 6(2u + 1)$

c) $8x + 12y = 4(2x + 3y)$

č) $14u + 21v + 28 = 7(2u + 3v + 4)$

d) $15ab + 12bc + 3b = 3b(5a + 4c + 1)$

e) $uv + uw + zv + zw = u(v + w) + z(v + w) =$
$= (u + z)(v + w)$

f) $ac + 3ad + bc + 3bd = c(a + b) + 3d(a + b) =$
$= (a + b)(c + 3d)$

13. a) $5x^{=4} + 3y^{=6} + 10 = 20 + 18 + 10 = 48$

b) $4(a^{=2} + 2b)^{=8} + 4a = 4 \cdot (2 + 16) + 8 = 4 \cdot 18 + 8 = 72 + 8 = 80$

c) $3(2x^{=3} + y)^{=5} + 4(y^{=5} + 2x)^{=3} + y^{=5} + 10 = 3(11) + 4 \cdot (11) + 15 = 33 + 44 + 15 = 92$

č) $(a^{=4} + 3b)^{=5} \cdot (a^{=4} + 4b)^{=5} = (4 + 15) \cdot (4 + 20) = 19 \cdot 24 = 456$

14) 1h ... 48km
5h ×2

$1 \cdot x = 20$

$x = 20$ km

15) 5A
A = 80 cat
10 B
B = 35 cat
5 C
C = 115 cat

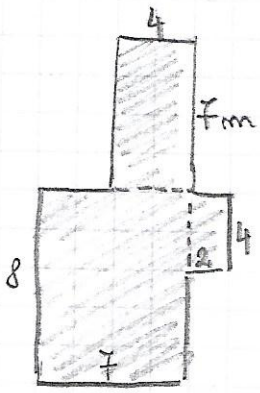
$5 \cdot 80 + 10 \cdot 35 + 5 \cdot 115 =$
$= 400 + 350 + 575 =$
$= 1325$ cat

16) 1 delavec .... 17 stžal $\times 8$ ur $\times 14$ delavcev $=$ 1904 stžal

17) 15 Z (2 e/steklenico) Z = { 8 steklenic }
7 Ž (1 e/steklenico) Ž = { 12 steklenic }

$15 \times 2 \times 8 + 7 \times 1 + 12 =$ 324 l

18)



$S = 4 \cdot 7 + 2 \cdot 4 + 8 \cdot 7 =$
$= 28 + 8 + 56 =$ 92 m²

19) 5 dni $\times$ 6 delavcev/dan $\times$ 9 ur/del. $= 270$
2 dni $\times$ (6+3) del/dan $\times$ 12 ur/del $= 216$
$\Sigma = 486$ ur

20) $4 \cdot 62 + 6(93 + 82 + 46) = 248 + 1326 =$ 1574

21) $3 \cdot (78 + 5 \cdot 43) + 121 = 879 + 121 = 1000$

22) 1. dan 87

2. dan 87 + 20 = 107

3. dan 15 + 87 + 20 = 122 Σ = 316 stran

23) 1. leto = 72.000

2. leto = 72.000 + 20.000 = 92.000

3. leto = 2 × (1. leto + 2. leto) = 2 · (72.000 + 92.000) = 328.000 Σ = 492.000 €