1.6.2020.

Množenje i dijeljenje decimalnih brojeva dekadskim jedinicama

-riješeni zadaci

<u>Zadatak 1</u>

a) $2.4 \cdot 10 = 24$

b) $0.732 \cdot 10 = 7.32$

c) $0.1273 \cdot 1000 = 127.3$

d) $10 \cdot 11.3 = 113$

e) $4.721 \cdot 100 = 472.1$

f) $10 \cdot 2.8 = 28$

<u>Zadatak 2</u>

a) $0.76 \cdot 1000 = 760$

b) $2.1 \cdot 10 = 21$

c) $1000 \cdot 0.42 = 420$

d) $11.8 \cdot 100 = 1180$

e) $10000 \cdot 4.03 = 40300$

f) $0.96 \cdot 10000 = 9600$

Zadatak 3

a) $2\frac{3}{10} \cdot 100 = 2.3 \cdot 100 = 230$

b) $37\% \cdot 100 = 0.37 \cdot 100 = 37$

c) $4\frac{11}{100} \cdot 10 = 4.11 \cdot 10 = 41.1$

d) $100 \cdot 3\frac{1}{100} = 100 \cdot 3.01 = 301$

e) $1000 \cdot \frac{172}{100} = 1000 \cdot 1.72 = 1720$

f) $100 \cdot 3‰ = 100 \cdot 0.003 = 0.3$

Zadatak 4

a) $10 \cdot 0.71 + 2 = 7.1 + 2 = 9.1$

b) $5.6 + 0.72 \cdot 10 = 5.6 + 7.2 = 12.8$

c) $4.3 \cdot 10 - 8.8 = 43 - 8.8 = 34.2$

$$\begin{array}{r} 43.0 \\ - 8.8 \\ \hline 34.2 \end{array}$$

d) $2.1 \cdot 10 + 0.7 \cdot 100 = 21 + 70 = 91$

e) $0.06 \cdot 1000 - 0.08 \cdot 10 = 60 - 0.8 = 59.2$

$$\begin{array}{r} 60.0 \\ - 0.8 \\ \hline 59.2 \end{array}$$

f) $12.3 \cdot 10 - \frac{31}{100} \cdot 10 = 12.3 \cdot 10 - 0.31 \cdot 10 = 10 \cdot (12.3 - 0.31) =$

$$\begin{array}{r} 12.30 \\ - 0.31 \\ \hline 11.99 \end{array}$$

$= 10 \cdot 11.99 = 119.9$

Zadatak 5

a) $3.81 \cdot 10 + x = 100$

$38.1 + x = 100$

$x = 100 - 38.1$

$\quad\quad 100.0$
$- \quad\underline{38.1}$
$\quad\quad 61.9$

$x = 61.9$

b) $x - 0.76 \cdot 10 = 4.2$

$x - 7.6 = 4.2$

$x = 4.2 + 7.6$

$x = 11.8$

c) $0.37 - x = 0.02 \cdot 10$

$0.37 - x = 0.2$

$x = 0.37 - 0.2$

$x = 0.17$

Zadatak 6

a) $43,46 : 10 = 4.346$

b) $512,7 : 100 = 5.127$

c) $98,4 : 10 = 9.84$

d) $561,03 : 100 = 5.6103$

e) $4301,1 : 100 = 43.011$

f) $28,05 : 10 = 2.805$

Zadatak 7

a) 0,3 : 10 = 0.03

b) 4,8 : 100 = 0.048

c) 2,73 : 1000=0.00273

d) 4 : 10 = 0.4

e) 56 : 100=0.56

f) 27 : 1000=0.027

Zadatak 8

a) $3\frac{1}{10}$: 100 = 3,1 : 100=0.031

b) 2% : 10 = 0,02 : 10=0.002

c) $\frac{47}{10}$: 100 = 4,7 : 100 =0.047

d) 5 ‰ : 10 = 0,005 : 10 = 0.0005

e) 42% : 10 = 0,42 : 10 = 0.042

f) $\frac{312}{100}$: 10 = 3,12 : 10 = 0.312

Zadatak 9

a) $51 - 0.32 \cdot 10 + 42 : 100 = 51 - 3.2 + 0.42 = 47.8 + 0.42$

$$\begin{array}{r} 51.0 \\ - \quad 3.2 \\ \hline 47.8 \end{array}$$

$= 48.22$

b) $8 + 0.5 \cdot 10 - 0.3 : 10 = 8 + 5 - 0.03 = 13 - 0.03 = 12.97$

$$\begin{array}{r} 13.00 \\ - \quad 0.03 \\ \hline 12.97 \end{array}$$

Zadatak 10

a) $x \cdot 10 = 4.2$

$\quad x = 4.2 : 10$

$\quad x = 0.42$

b) $10 \cdot x = 8$

$\quad x = 8 : 10$

$\quad x = 0.8$

c) $14.8 : x = 0.148$

$\quad x = 100$

d) $x : 10 = 0.42$

$\quad x = 0.42 \cdot 10$

$\quad x = 4.2$

e) $3 : x = 0.03$

$\quad x = 100$

f) $x : 10 = 0.4$

$\quad x = 0.4 \cdot 10$

$\quad x = 4$