

Inicijalni ispit znanja

1.) Izračunaj:

$$32.417 + 219.58 = 251.997$$

$$\begin{array}{r} 32.417 \\ + 219.58 \\ \hline 251.997 \end{array}$$

$$15.4 - 6.48 = 8.92$$

$$\begin{array}{r} 15.40 \\ - 6.48 \\ \hline 8.92 \end{array}$$

$$18.462 \cdot 100 = 1846.2$$

$$51.49 : 1000 = 0.05149$$

$$12.6 \cdot 1.37 = 17.262$$

$$\begin{array}{r} 12.6 \cdot 1.37 \\ \hline 126 \\ 378 \\ + 882 \\ \hline 17.262 \end{array}$$

$$3.036 : 0.4 = 30.36 : 4 = 7.59$$

$$\begin{array}{r} 30,36 : 4 = 7,59 \\ \underline{23} \\ 36 \\ \underline{36} \\ 0 \end{array}$$

$$-8 \cdot 7 \cdot 0 \cdot (-6) = 0$$

$$\frac{3}{4} + \frac{5}{6} = \frac{9+10}{12} = \frac{19}{12} = 1\frac{7}{12}$$

$$\underline{16 : (-4)} - \underline{15 : 5} - \underline{20 : (-4)} = -4 - 3 + 5 = -2$$

$$\frac{9}{4} \cdot \frac{3}{8} = \frac{27}{32}$$

$$\frac{2}{5} : \frac{3}{8} = \frac{2}{5} \cdot \frac{8}{3} = \frac{16}{15} = 1 \frac{1}{15}$$

$$-\frac{3}{5} \text{ od } 65 = -\frac{3}{5} \cdot \frac{65}{1} = -\frac{39}{1} = -39$$

2.) Popuni tablicu:

BROJ Z	SLJEDBENIK OD Z	Z	- Z	PRETHODNIK OD Z
- 79	-78	79	79	-80

3.) Usporedi: $0.657 < 0.67$

0.657 0.670

4.) Napiši tri prosta broja veća od 20, a manja od 50.

23, 29, 31, 37, 41, 43, 47.

5.) Napiši sve djelitelje broja 42.

1, 2, 3, 6, 7, 14, 21, 42.

6.) Napiši dva četveroznamenasta višekratnika broja 10.

6850, 6360,

7.) Zapiši u obliku razlomka 1.003.

$$1.003 = \frac{1003}{1000}$$

8.) Napiši u decimalnom zapisu $\frac{37}{10000}$.

$$\frac{37}{10000} = 0.0037$$

9.) Riješi jednađbu: $1.3x - 1 \frac{1}{4} (0.8x - \frac{x}{5}) - (\frac{2}{5}x - 3) = 0$

$$\frac{13}{10}x - \frac{5}{4} (\frac{8}{10}x - \frac{x}{5}) - (\frac{2}{5}x - 3) = 0$$

$$\frac{13}{10}x - \frac{5}{4} \cdot \frac{8}{10}x + \frac{5}{4} \cdot \frac{x}{5} - \frac{2}{5}x + 3 = 0$$

$$\frac{13}{10}x - x + \frac{x}{4} - \frac{2x}{5} + 3 = 0 \quad / \cdot 20$$

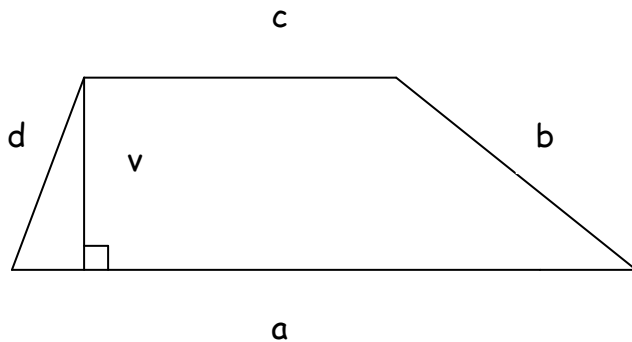
$$26x - 20x + 5x - 8x + 60 = 0$$

$$3x = -60 \quad / :3$$

$$x = -20$$

10.) Izračunaj visinu trapeza ako je njegova površina 39.6 cm^2 , a duljine njegovih osnovica su 4.7 cm i 6.3 cm .

SKICA:



PODACI: $p = 39.6 \text{ cm}^2$
 $c = 4.7 \text{ cm}$
 $a = 6.3 \text{ cm}$

$v = ?$

RAČUN: $p = \frac{a+c}{2} \cdot v$

$$39.6 = \frac{6.3+4.7}{2} \cdot v$$

$$39.6 = \frac{11}{2} \cdot v$$

$$39.6 = 5.5 \cdot v$$

$$v = 39.6 : 5.5$$

$$v = 396 : 55$$

$$\begin{array}{r} 396 : 55 = 7, 2 \\ - 385 \\ \hline = 110 \\ - 110 \\ \hline = = = \end{array}$$

$$v = 7.2 \text{ cm}$$