

## NASTAVNI SAT IZ MATEMATIKE

**ŠKOLA:** Osnovna škola Vladimira Pavlovića

**NASTAVNA JEDINKA:** Dijeljenje racionalnih brojeva – ponavljanje

**DATUM:** 18.3.2020.

**RAZRED:** VII.

**Zadatak 1:** Od količnika brojeva  $-49$  i  $-4\frac{2}{3}$  oduzmi količnik brojeva  $-5$  i  $-\frac{1}{2}$ .

Rješenje:

$$\begin{aligned} & \left(-49 : \left(-4\frac{2}{3}\right)\right) - \left(-5 : \left(-\frac{1}{2}\right)\right) = \left(-49 : \left(-\frac{14}{3}\right)\right) - (-5 \cdot (-2)) = \left(-\frac{49}{1} \cdot \left(-\frac{3}{14}\right)\right) - 10 = \frac{147}{14} - 10 \\ & 10 = \frac{147-140}{14} = \frac{7}{14} = \frac{1}{2} \end{aligned}$$

**Zadatak 2:** Izračunaj:

- a)  $\frac{3}{4} - 1\frac{1}{5} : 0.3 + 1\frac{1}{2}$   
b)  $\frac{1}{3} - (-1) : \frac{3}{4} + \frac{4}{5} : \left(-1\frac{1}{15}\right)$

Rješenje:

$$\begin{aligned} \text{a) } & \frac{3}{4} - 1\frac{1}{5} : 0.3 + 1\frac{1}{2} = \frac{3}{4} - \frac{6}{5} : \frac{3}{10} + \frac{3}{2} = \frac{3}{4} - \frac{6}{5} \cdot \frac{10}{3} + \frac{3}{2} = \frac{3}{4} - \frac{4}{1} + \frac{3}{2} = \frac{3-16+6}{4} = \frac{9-16}{4} = \frac{-7}{4} = -1\frac{3}{4} \\ \text{b) } & \frac{1}{3} - (-1) : \frac{3}{4} + \frac{4}{5} : \left(-1\frac{1}{15}\right) = \frac{1}{3} - (-1) \cdot \frac{4}{3} + \frac{4}{5} : \left(-\frac{16}{15}\right) = \frac{1}{3} + \frac{4}{3} + \frac{4}{5} \cdot \left(-\frac{15}{16}\right) = \frac{1}{3} + \frac{4}{3} - \frac{3}{4} = \\ & \frac{4+16-9}{12} = \frac{11}{12} \end{aligned}$$

**Zadatak 3:** Izračunaj:

- a)  $2\frac{1}{2} - \left(-\frac{1}{2}\right) - \frac{3}{4} : 2 - \frac{3}{4}$   
b)  $-0.7 - \frac{3}{4} : (-6) + \frac{2}{5} : \frac{1}{3}$

Rješenje:

$$\begin{aligned} \text{a) } & 2\frac{1}{2} - \left(-\frac{1}{2}\right) - \frac{3}{4} : 2 - \frac{3}{4} = \frac{5}{2} + \frac{1}{2} - \frac{3}{4} \cdot \frac{1}{2} - \frac{3}{4} = \frac{5}{2} + \frac{1}{2} - \frac{3}{8} - \frac{3}{4} = \frac{20+4-3-6}{8} = \frac{15}{8} = 1\frac{7}{8} \\ \text{b) } & -0.7 - \frac{3}{4} : (-6) + \frac{2}{5} : \frac{1}{3} = -\frac{7}{10} - \frac{3}{4} : \left(-\frac{6}{1}\right) + \frac{2}{5} \cdot \frac{3}{1} = -\frac{7}{10} - \frac{3}{4} \cdot \left(-\frac{1}{6}\right) + \frac{6}{5} = -\frac{7}{10} + \frac{1}{8} + \frac{6}{5} = \\ & \frac{-28+5+48}{40} = \frac{25}{40} = \frac{5}{8} \end{aligned}$$

**Zadatak 4:** Izračunaj:

a)  $\left(\frac{5}{6} \cdot 0.3 - 2 : \frac{4}{3}\right) + 2$

b)  $3.5 \cdot 2 - \left(\frac{3}{8} : \frac{3}{4} - 0.5\right)$

Rješenje:

a)  $\left(\frac{5}{6} \cdot 0.3 - 2 : \frac{4}{3}\right) + 2 = \left(\frac{5}{6} \cdot \frac{3}{10} - \frac{2}{1} \cdot \frac{3}{4}\right) + 2 = \left(\frac{1}{4} - \frac{3}{2}\right) + 2 = \frac{1-6}{4} + 2 = \frac{-5}{4} + 2 = \frac{-5+8}{4} = \frac{3}{4}$

b)  $3.5 \cdot 2 - \left(\frac{3}{8} : \frac{3}{4} - 0.5\right) = 7 - \left(\frac{3}{8} \cdot \frac{4}{3} - \frac{1}{2}\right) = 7 - \left(\frac{1}{2} - \frac{1}{2}\right) = 7 - 0 = 7$

**Zadatak 5:** Izračunaj:

a)  $-\frac{3}{10} : \frac{1}{2} + \frac{3}{4} : 2 \frac{1}{2}$

b)  $-1 - \left(\frac{7}{8} : 3.5 + 2 : \frac{1}{2}\right) + \frac{3}{4}$

Rješenje:

a)  $-\frac{3}{10} : \frac{1}{2} + \frac{3}{4} : 2 \frac{1}{2} = -\frac{3}{10} \cdot \frac{2}{1} + \frac{3}{4} : \frac{5}{2} = -\frac{3}{5} + \frac{3}{4} \cdot \frac{2}{5} = -\frac{3}{5} + \frac{3}{10} = \frac{-6+3}{10} = -\frac{3}{10}$

b)  $-1 - \left(\frac{7}{8} : 3.5 + 2 : \frac{1}{2}\right) + \frac{3}{4} = -1 - \left(\frac{7}{8} \cdot \frac{35}{10} + 2 \cdot 2\right) + \frac{3}{4} = -1 - \left(\frac{7}{8} \cdot \frac{10}{35} + 4\right) + \frac{3}{4} = -1 - \left(\frac{1}{4} + 4\right) + \frac{3}{4} = -1 - \frac{1}{4} - 4 + \frac{3}{4} = \frac{-4-1-16+3}{4} = \frac{-18}{4} = \frac{-9}{2} = -4 \frac{1}{2}$

**PREPISATI PRIMJERE ZADATAKA S RJEŠENJIMA U ŠKOLSKU BILJEŽNICU!**

Zadaci rađeni u ovoj pripremi su 16., 19 (a,d), 20 (a,d), 21 (a, d) i 22 (a, d) iz udžbenika na 178. i 179. stranici, a za zadaću uraditi 14., 15., 20.(b, c), 21. (b,c)