

# PONEDJELJAK, 4. 5. 2020 6.d

Dobar dan!

Sigurno ste se dobro odmorili pa napunjenih baterija krećemo dalje.

1. Najprije najavljujem provjeru znanja za četvrtak (Racionalni brojevi).  
Zadatke ćete dobiti na Microsoft Formsu (kviz), u ograničenom vremenu, a poslat ćete mi i postupke rješavanja zadataka (iz svoje bilježnice).
2. Prilažem rješenje domaće zadaće (dolje).
3. Također možete pogledati svoje rezultate prethodnog kviza (vratite se na kviz od četvrtka, otvorite ga i pogledajte rješenja).
4. Za današnji blok sat riješite novi kviz "Ponavljjanje\_Racionalni\_brojevi\_6d".

<https://forms.office.com/Pages/ResponsePage.aspx?id=FvJamzTGgEurAgvaPQKQka9gUnltaLdLgbvUmbRz--xUQTcyTIIJWEJNQk5NUkM1OERBWTk2Vky1Sy4u>

5. Za zadaću riješiti iz udžbenika na strani 120-122. zadatke: 223ab, 226af, 230abc, 233,235,236, 238, 239.

**IND: domaća zadaća, str. 120.-122. zadaci: 219, 222bcd, 225, 227abc, 233ab, 236.**

Pozdrav

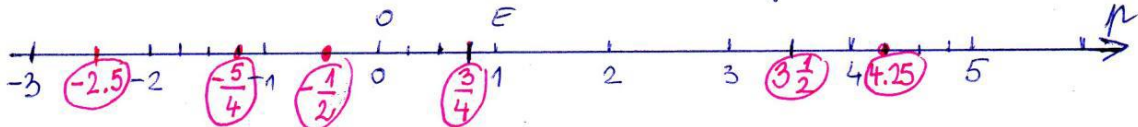
PRIPREMA ZA ISPIT ZNANJA, str. 123.

1.) Pozitivni racionalni brojevi su

$$\left(-\frac{-4}{7}\right) = \frac{4}{7} > \left(\frac{-2}{-7}\right) = \frac{2}{7} > \left(\frac{3}{5}\right).$$

2.)  $-\frac{1}{2} > \frac{3}{4} > -\frac{5}{4} = -1\frac{1}{4} > 3\frac{1}{2} > -2.5 = -2\frac{1}{2} > 4.25 = 4\frac{25}{100} = 4\frac{1}{4}$

$V(2,4) = 4 \Rightarrow$  uzmi 4 kvadrata, tj. 2cm ili 4cm,...



3.) Usporedi brojeve

a)  $-\frac{6}{7}$  i  $\frac{5}{9}$

$$\boxed{-\frac{6}{7} < \frac{5}{9}}$$

pozitivan!

b)  $-\frac{5}{3}$  i  $-1\frac{3}{4}$

$$-\frac{5}{3} > -\frac{7}{4}$$

$$-5.4 > -7.3$$

$$-20 > -21$$

$$\boxed{-\frac{5}{3} > -1\frac{3}{4}}$$

c)  $7.45$  i  $7.454$

$$\boxed{7.450 < 7.454}$$

d)

$$\frac{3}{4} = 0.75$$

(jer je  $0.75 = \frac{75:25}{100:25} = \frac{3}{4}$ )

4.) Izračunajte

a)  $-\frac{4}{7} + (-\frac{2}{7}) = -\frac{4}{7} - \frac{2}{7} = \boxed{-\frac{6}{7}}$

b)  $3.68 - 10.4 = \boxed{-6.72}$

$$\begin{array}{r} 10.40 \\ - 3.68 \\ \hline 6.72 \end{array}$$

c)  $-\frac{3}{5} + \frac{4}{9} = \frac{-27+20}{45} = \boxed{-\frac{7}{45}}$

d)  $2.32 - \frac{6}{5} = 2.32 - \frac{6 \cdot 2}{5 \cdot 2} = 2.32 - \frac{12}{10} = 2.32 - 1.2 = \boxed{1.12}$

$$\begin{array}{r} 2.32 \\ - 1.2 \\ \hline 1.12 \end{array}$$

5.) Izračunajte

a)  $-\frac{4}{7} \cdot \frac{27}{164} = \boxed{-\frac{27}{28}}$

b)  $\frac{3}{5} \cdot 0.2 = \frac{3}{5} \cdot \frac{2}{10} = \frac{3}{25}$

c)  $-1\frac{2}{3} \cdot (-2\frac{2}{5}) = -\frac{5}{3} \cdot (-\frac{12}{5}) = \frac{4}{1} = \boxed{4}$

d)  $-5\frac{1}{2} : 1\frac{3}{5} = -\frac{11}{2} : \frac{8}{5} = -\frac{11}{2} \cdot \frac{5}{8} = \frac{-55}{16} = \boxed{-3\frac{7}{16}}$

6.) Izračunajte

$$a) \underline{1.22} - \underline{0.72} + \underline{4.6} - \underline{10.25} =$$

$$= 5.82 - 10.97 = \boxed{-5.15}$$

$$\begin{array}{r} 1.22 \\ + 4.6 \\ \hline 5.82 \end{array}$$

$$\begin{array}{r} 0.72 \\ + 10.25 \\ \hline 10.97 \\ - 5.82 \\ \hline 5.15 \end{array}$$

$$b) -\frac{2}{3} + \frac{1}{2} + 1 - \frac{3}{5} - \frac{1}{4} + \frac{5}{6} = \frac{-40 + 30 + 60 - 36 - 15 + 50}{60}$$

$$= \frac{-91 + 140}{60} = \boxed{\frac{49}{60}}$$

7.) Izračunajte

$$a) \frac{2}{5} - 1.05 \cdot \left(1 - \frac{2}{7}\right) = \frac{2}{5} - \frac{105}{100} \cdot \left(\frac{7}{7} - \frac{2}{7}\right) = \frac{2}{5} - \frac{15}{20} \cdot \frac{5}{7} =$$

$$= \frac{2}{5} - \frac{3}{4} = \frac{8-15}{20} = \boxed{\frac{-7}{20}}$$

$$b) 3\frac{2}{7} - \left(3 - \frac{1}{2}\right) : \frac{7}{6} = \frac{23}{7} - \left(\frac{6}{2} - \frac{1}{2}\right) : \frac{7}{6} = \frac{23}{7} - \frac{5}{2} \cdot \frac{6}{7} =$$

$$= \frac{23}{7} - \frac{15}{2} = \frac{8}{7} = \boxed{1\frac{1}{7}}$$

$$8.) a) \left(-\frac{1}{2} + \frac{1}{3}\right) - \left(-\frac{1}{2} - \frac{1}{3}\right) = -\frac{1}{2} + \frac{1}{3} + \frac{1}{2} + \frac{1}{3} = \boxed{\frac{2}{3}}$$

$$b) \frac{1}{9} : \left(-\frac{4}{3}\right) + \frac{1}{9} \cdot \left(-\frac{4}{3}\right) = \frac{1}{9} \cdot \left(-\frac{3}{4}\right) + \frac{1}{9} \cdot \frac{-4}{3} =$$

$$= -\frac{1}{12} - \frac{4}{27} = \frac{-9-16}{108} = \boxed{\frac{-25}{108}}$$

$$\begin{array}{r} 12,27 \overline{) 3} \\ 4,9 \phantom{0} \\ \hline 4,3 \phantom{0} \\ 4,1 \phantom{0} \\ \hline 2 \phantom{0} \\ 2 \phantom{0} \\ \hline 1 \phantom{0} \end{array}$$

9.) | zračunajte

$$a) -\frac{3}{5} : 4 + \frac{8}{9} \cdot \left(-\frac{1}{4}\right) - \frac{1}{4} \cdot \frac{2}{3} \cdot \left(-\frac{4}{5}\right) =$$

$$= -\frac{3}{5} : \frac{4}{1} + \frac{8}{9} \cdot \left(-\frac{1}{4}\right) - \frac{1}{4} \cdot \frac{2}{3} \cdot \frac{-4}{5} =$$

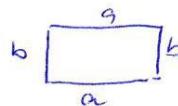
$$= -\frac{3}{5} \cdot \frac{1}{4} - \frac{2}{9} + \frac{3}{10} = -\frac{3}{20} - \frac{2}{9} + \frac{3}{10} = \frac{-27-40+54}{180} = \boxed{\frac{-13}{180}}$$

$$b) 5 \cdot 4 - \frac{1}{12} : \left(\frac{7}{24} - \frac{1}{2}\right) - 2 \frac{2}{3} =$$

$$= \frac{54}{10} - \frac{1}{12} : \frac{7-12}{24} - \frac{8}{3} = \frac{54}{10} - \frac{1}{12} \cdot \frac{-5}{24} - \frac{8}{3} =$$

$$= \frac{54}{10} + \frac{1}{12} \cdot \frac{24^2}{5} - \frac{8}{3} = \frac{54}{10} + \frac{2}{5} - \frac{8}{3} = \frac{162+12-80}{30} = \frac{94}{30} = \frac{47}{15} = \boxed{3 \frac{2}{15}}$$

10.)  $\sigma = 12 \frac{1}{5} \text{ cm} = 12 \frac{1 \cdot 2}{5 \cdot 2} \text{ cm} = 12 \frac{2}{10} \text{ cm} = 12.2 \text{ cm}$



$a = 3.5 \text{ cm}$

P, b

$$\sigma = 2 \cdot a + 2 \cdot b$$

$$12.2 = 2 \cdot 3.5 + 2 \cdot b$$

$$12.2 = 7 + 2b$$

$$2b = 12.2 - 7$$

$$2b = 5.2$$

$$b = 5.2 : 2$$

$$\boxed{b = 2.6 \text{ cm}}$$

$$P = a \cdot b$$

$$P = 3.5 \cdot 2.6$$

$$\boxed{P = 9.1 \text{ cm}^2}$$

$$\begin{array}{r} 3.5 \cdot 2.6 \\ \underline{70} \\ + 210 \\ \hline 9.10 \end{array}$$