Припрема за контролни

① а) Између 2 дата бр. постави одговарајући знак:
> , < или = :

$$-\left(-\dfrac{8}{3}\right) \boxed{<} \dfrac{20}{7}$$

$$-\left(-\dfrac{2}{9}\right) \boxed{>} 0,2$$

$$\dfrac{8 \cdot 7}{3} \square \dfrac{20}{7} \cdot |\cdot 3$$

$$\dfrac{2}{9} \square \dfrac{2}{10}$$

$$\dfrac{56}{21} < \dfrac{60}{21}$$

$$9 < 10 \quad и \quad 2 = 2$$
$$па \ важи \ \dfrac{2}{9} > \dfrac{2}{10}$$

б) Уместо * упиши одговарајући цео бр тако да
важи нејеДнакост:

$$\dfrac{*}{6} = -\dfrac{12}{9}$$

$$\dfrac{*}{6} \neq -\dfrac{12}{9}$$

$$6 \cdot (-12) = 9 \cdot *$$

$$-72 = 9 \cdot *$$

$$* = -72 : 9$$

$$\boxed{* = -8}$$

② ⦿ Израчунај вредност израза:

a) $\left(-\frac{3}{4} + 1\frac{1}{2}\right) - 5\frac{1}{4} = \left(-\frac{3}{4} + \frac{3}{2}\right) - \frac{21}{4} = \left(-\frac{3}{4} + \frac{6}{4}\right) - \frac{21}{4} =$

$= \frac{3}{4} - \frac{21}{4} = \frac{-18}{4}^{|:2} = -\frac{9}{2} = -4\frac{1}{2}$

б) $-13,07 + (-12,3) - (-19,87) =$

$= -13,07 - 12,30 + 19,87 =$

$= -25,37 + 19,87$

$= -5,50 = -5,5$

$$\begin{array}{r} 13,07 \\ 12,30 \\ \hline 25,37 \end{array}$$

$$\begin{array}{r} 25,37 \\ -19,87 \\ \hline 5,50 \end{array}$$

③ Израчунај:

a) $2\frac{1}{4} - (1,75 - 4) - 2\frac{7}{10} =$

1. НАЧИН:
$= 2,25 - (1,75 - 4,00) - 2,7 =$

$= 2,25 - (-2,25) - 2,7 =$

$= 2,25 + 2,25 - 2,7 =$

$= 4,5 - 2,7 =$

$= 4,8$

$$\begin{array}{r} 4,00 \\ -1,75 \\ \hline 2,25 \end{array}$$

$$\begin{array}{r} 2,25 \\ +2,25 \\ \hline 4,50 \end{array}$$

$$\begin{array}{r} 4,5 \\ -2,7 \\ \hline 1,8 \end{array}$$

2. НАЧИН: $\frac{9}{4} - \left(\frac{175}{100}^{|:25} - 4\right) - \frac{27}{10} =$

$= \frac{9}{4} - \left(\frac{7}{4} - 4\right) - \frac{27}{10} =$

$= \frac{9}{4} - \left(\frac{7}{4} - \frac{16}{4}\right) - \frac{27}{10} = \frac{9}{4} - \left(-\frac{9}{4}\right) - \frac{27}{10} = \frac{9}{4} + \frac{9}{4} - \frac{27}{10} = \frac{18}{4}^{|:2} - \frac{27}{10} =$

$= \frac{9}{2} - \frac{27}{10} = \frac{45 - 27}{10} = \frac{18}{10}$

б) $\frac{1}{8} - \left(-15\frac{3}{4}\right) + 0,875 + \left(-\frac{3}{5}\right) =$

1. НАЧИН:

$0,125 - (-15,75) + 0,875 + (-0,6) =$

$= 0,125 + 15,75 + 0,875 - 0,6 =$

$= 15,875 + 0,875 - 0,6$

$= 16,750 - 0,6$

$= 16,15$

$$\begin{array}{r} 15,750 \\ 0,125 \\ \hline 15,875 \end{array}$$

$$\begin{array}{r} {}^{+1\,+1\,+1} \\ 15,875 \\ +\ \ 0,875 \\ \hline 16,750 \end{array}$$

$$\begin{array}{r} 16,75 \\ -\ 0,60 \\ \hline 16,15 \end{array}$$

2 НАЧИН:

$\frac{1}{8} - \left(-\frac{63}{4}\right) + \frac{875}{1000}^{|:125} - \frac{3}{5} =$

$= \frac{1}{8} + \frac{63}{4} + \frac{7}{8} - \frac{3}{5} =$

$= \frac{1 + 63\cdot2 + 7}{8} - \frac{3}{5} = \frac{1 + 126 + 7}{8} - \frac{3}{5} =$

$= \frac{134}{8} - \frac{3}{5} = \frac{134\cdot5 - 3\cdot8}{40} = \frac{670 - 24}{40} = \frac{646}{40} = \frac{323}{20} = 16,15$

$=$

$$\begin{array}{l} 323 : 20 = 16,15 \\ \underline{20} \\ 123 \\ \underline{120} \\ 30 \\ \underline{20} \\ 100 \end{array}$$