

GUIA 2 – GRUPO 4

II.d.1.1

a)

II.d.1.1 EXPRESAR EN FORMA DECIMAL

② $\frac{15}{20}$

$$\begin{array}{r} 150 \overline{) 20} \\ -140 \\ \hline 0100 \\ -100 \\ \hline 000 \\ 8 \end{array}$$

$\boxed{15/20 = 0,75}$ ✓

II.d.1.2

g)

⑨ $0,7\overline{6}$

$$\begin{aligned} 100x &= 76,7\overline{6} \\ x &= 0,7\overline{6} \end{aligned} \rightarrow 100x - x = 76,7\overline{6} - 0,7\overline{6}$$
$$99x = 76$$

Entonces $0,7\overline{6} = \frac{76}{99}$ ✓

$\boxed{x = \frac{76}{99}} \rightarrow$

II.d.1.3

c)

$$\textcircled{c} \frac{\left(0,5\bar{4} + \frac{3}{5}\right)^2}{0,10\bar{8}} =$$

$$\frac{\left(\frac{49}{90} + \frac{3}{5}\right)^2}{\frac{49}{450}} =$$

$$\frac{\left(\frac{49+54}{90}\right)^2}{\frac{49}{450}} =$$

$$\frac{\left(\frac{103}{90}\right)^2 \cdot \frac{450}{49}}{\frac{49}{450}} = \frac{10609}{882} \checkmark$$

$$\textcircled{A} 0,5\bar{4} \quad \begin{array}{l} 100x = 54,4 \\ 10x = 5,4 \\ 100x - 10x = 54,4 - 5,4 \\ 90x = 49 \\ x = \frac{49}{90} \end{array}$$

$$\textcircled{B} 0,10\bar{8} \quad \begin{array}{l} 1000x = 108,8 \\ 100x = 10,8 \\ 1000x - 100x = 108,8 - 10,8 \\ 900x = 98 \\ x = \frac{98}{900} = \frac{49}{450} \end{array}$$

II.d.1.4

e)

$$\textcircled{e} -\frac{3}{4} \left[\frac{4}{3} \left(\frac{1}{2} - \frac{1}{3} \right) + \frac{2}{7} \right] =$$

$$-\frac{3}{4} \left[\frac{4}{3} \cdot \frac{1}{6} + \frac{2}{7} \right] = -\frac{3}{4} \left[\frac{4}{18} + \frac{2}{7} \right] = -\frac{3}{4} \left[\frac{28+36}{63} \right] = -\frac{24}{63} = -\frac{8}{21} \checkmark$$

II.d.1.4

g)

9) $8 - \frac{\frac{2}{5} - \frac{1}{9}}{\frac{7}{6}} + \frac{1}{21} \left(\frac{9}{4} - \frac{2}{5} \right) =$

$8 - \frac{\frac{18-5}{45}}{\frac{7}{6}} + \frac{1}{21} \left(\frac{37}{-45-8} \right) =$

$8 - \frac{13}{45} \cdot \frac{6}{7} + \frac{37}{420} = \frac{8}{1} - \frac{26}{105} + \frac{37}{420} = \frac{3260 - 104 + 37}{420} = \boxed{\frac{3293}{420}}$ ✓

Integrantes:

Martinez, Eleazar

Ruhl, Alexis

Sáenz, Federico Alejandro

Emeri, Alejo Tomás

Citera, Facundo Jesús