

Semana 12

Indicaciones: Resuelva las siguientes operaciones en tu cuaderno y envía evidencia de su trabajo.

$$a) \frac{6}{12} + \left(\frac{4}{9}\right) \left(\frac{9}{6}\right) = \frac{6}{12} + \frac{36}{54} = \frac{54}{108} + \frac{72}{108} =$$

$$\begin{array}{r} 12 \overline{) 54} 2 \\ 6 \overline{) 27} 2 \\ 3 \overline{) 9} 3 \\ 1 \overline{) 3} 3 \\ 1 \overline{) 3} \\ \hline 108 \end{array}$$

$$\frac{126}{108} = \frac{63}{54} = \frac{21}{18} = \frac{7}{6}$$

$$b) \frac{6}{10} - \left(\frac{7}{9}\right) \div \left(\frac{10}{6}\right) = \frac{6}{10} - \frac{42}{90} = \frac{54}{90} - \frac{42}{90} =$$

$$\begin{array}{r} 10 \overline{) 90} 2 \\ 5 \overline{) 45} 3 \\ 1 \overline{) 15} 3 \\ 5 \overline{) 5} 5 \\ 1 \overline{) 90} \end{array}$$

$$\frac{12}{90} = \frac{6}{45} = \frac{2}{15}$$

c) $\frac{3}{12} \left(\frac{4}{9} \right) \left(\frac{9}{16} \right) \frac{4}{12} = \frac{3}{12} \left(\frac{36}{54} \right) + \frac{4}{12} = \frac{108}{648} + \frac{4}{12}$

$$\begin{array}{r} 648 \cdot 122 \\ 324 \quad 62 \\ 162 \quad 32 \\ 81 \quad 13 \\ 27 \quad 3 \\ 9 \quad 3 \\ 3 \quad 3 \\ 1 \quad 3 \\ \hline 648 \end{array}$$

$$\frac{108 + 216}{648} = \frac{324}{648} = \frac{162}{324}$$

$$\frac{81}{162} = \frac{27}{54} = \frac{9}{18} = \frac{3}{6} = \frac{1}{2}$$

d) $6 \frac{8}{5} + \left(7 \frac{4}{9} \right) 3 \left(2 \frac{9}{6} \right) 4 = \frac{38}{5} + \left(\frac{67}{9} \times \frac{3}{1} \times \frac{21}{6} \right)$

$$\times \frac{4}{1} = \frac{38}{5} + \frac{16.884}{54} = \frac{2052 + 84.420}{270} =$$

$$\frac{864 + 2}{276} = \frac{43.236}{138} = \frac{14.412}{45} = \frac{4.804}{15}$$

$$320 \frac{4}{15}$$

$$c) \frac{6}{12} + \left(\frac{4}{9}\right) \left(\frac{9}{6}\right) \frac{4-7}{3} + 9 = \frac{6}{12} + \left(\frac{36}{54}\right) \frac{4-7}{3} + 9 =$$

$$\frac{6}{12} + \frac{144}{162} - \frac{7}{6} + \frac{9}{1} = \frac{162 + 188 - 378 + 2916}{324}$$

$$\begin{array}{r} 12 \\ 6 \\ 3 \\ 1 \end{array} \quad \begin{array}{r} 162 \\ 81 \\ 27 \\ 9 \\ 3 \\ 1 \end{array} \quad \begin{array}{r} 6 \\ 3 \\ 1 \end{array} \begin{array}{r} 2 \\ 2 \\ 3 \\ 3 \\ 3 \\ 3 \end{array} \quad \frac{2988}{324} = \frac{1494}{162} = \frac{747}{81} = \frac{249}{27} =$$

$$\frac{83}{9}$$