

Ejercicio de operaciones combinadas

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Tarea

a) $\left[\left(\frac{1}{3} \cdot \frac{3}{2} + \frac{3}{4} \right) - \left(\frac{17}{2} - \frac{6}{5} \div \frac{3}{20} \right) \right] \div \frac{9}{4}$

$\left[\left(\frac{1}{2} + \frac{3}{4} \right) - \left(\frac{17}{2} - \frac{8}{1} \right) \right] \div \frac{9}{4}$

$\left[\frac{5}{4} \div \frac{1}{2} \right] \div \frac{9}{4}$

$\frac{3}{4} \div \frac{9}{4} = \frac{12}{30} = \frac{1}{3}$

b) $\frac{6}{12} + \left(\frac{4}{9} \right) \left(\frac{9}{6} \right) =$

$\frac{6}{12} + \frac{36}{54} = \frac{54}{108} + \frac{72}{108} = \frac{126}{108} = \frac{63}{54} = \frac{21}{18} = \frac{7}{6} =$

$\frac{1}{6}$

c) $\frac{6}{10} - \left(\frac{7}{9} \right) \div \left(\frac{10}{6} \right) =$

$\frac{6}{10} - \frac{7}{9} \div \frac{10}{6}$

Arimany.

$$\frac{6}{19} - \frac{42}{90} = \frac{54-42}{90} = \frac{12}{90} = \frac{6}{45} = \frac{2}{15}$$

$$d) \frac{3}{12} \left(\frac{4}{9} \right) \left(\frac{9}{6} \right) + \frac{4}{12} =$$

$$\frac{3}{12} \cdot \frac{4}{9} \cdot \frac{9}{6} + \frac{4}{12}$$

$$\frac{72}{108} \cdot \frac{9}{6} + \frac{4}{12}$$

$$\frac{708}{648} + \frac{4}{12} = \frac{708+216}{648} = \frac{924}{648} = \frac{162}{324} =$$

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

$$\textcircled{e} 6\frac{8}{5} + (7\frac{4}{9}) \cdot 3(2\frac{9}{6}) \cdot 4 =$$

$$6\frac{8}{5} + \frac{67}{9} \cdot \frac{3}{1} \cdot \frac{21}{6} \cdot \frac{4}{1}$$

$$6\frac{8}{5} + \frac{16,884}{54}$$

$$\frac{38}{5} + \frac{16,884}{54} = \frac{2052}{270} + \frac{84,420}{270} = \frac{86,472}{270} =$$

$$\frac{43,236}{135} = \frac{14,412}{45} = \frac{4,804}{15}$$

$$320\frac{3}{6}$$

$$f) \frac{6}{12} + \left(\frac{4}{9}\right) \left(\frac{9}{6}\right) \cdot \frac{4}{3} - \frac{7}{6} + 9$$

$$\frac{6}{12} + \frac{36}{54} \cdot \frac{4}{3} - \frac{7}{6} + \frac{9}{1}$$

$$\frac{6}{12} + \frac{144}{162} - \frac{7}{6} + \frac{9}{1} = \frac{162 + 288 - 378 + 2916}{324} =$$

$$\frac{2988}{324} = \frac{1494}{162} = \frac{747}{81} = \frac{249}{27} =$$

$$\frac{83}{9} = \frac{9 \ 2}{1 \ 2}$$