OPERACIONES CON FRACCIONES

1.-

a) $\frac{3}{4} + \frac{2}{5} =$

b) $\frac{4}{5} + \frac{-3}{10} =$

c) $\frac{-1}{3} + \frac{7}{6} =$

d) $\frac{3}{6} - \frac{-4}{9} =$

e) $\frac{7}{3} - 2 =$

f) $3 + \frac{1}{2} =$

2.-

a) $\frac{2}{3} + \frac{3}{4} - \frac{1}{6} =$

b) $3 + \frac{3}{4} - \frac{12}{8} =$

c) $\frac{2}{3} - \frac{1}{9} + 2 + \frac{7}{6} =$

d) $\frac{7}{4} - \left(\frac{3}{4} + \frac{2}{3}\right) =$

e) $\frac{2}{3} - \left(3 + \frac{1}{2}\right) =$

f) $2 - \left(3 + \frac{1}{3}\right) + \frac{8}{9} =$

g) $4 + \frac{-14}{3} - \left(-1 + \frac{5}{6}\right) =$

3.-

a) $3 \cdot \frac{4}{9} \cdot \frac{1}{12} =$

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

c) $\frac{5}{3} \cdot \left(\frac{-6}{25}\right) \cdot \frac{5}{2} =$

d) $\frac{3}{4} \cdot \frac{2}{5} : \left(\frac{-9}{10}\right) =$

e) $\frac{3}{4} \cdot \left[\frac{2}{5} : \left(\frac{-9}{10}\right)\right] =$

f) $3 : \left(\frac{-6}{2}\right) : \left(\frac{-4}{9}\right) =$

4.-

a) $\frac{2}{3} + \frac{4}{5} \cdot \frac{3}{2} - \frac{5}{3} =$

b) $\frac{3}{4} : (-6) - 2 : \frac{1}{4} =$

c) $\frac{7}{3} + \left(-\frac{1}{9}\right) : 3 - \frac{5}{9} \cdot \frac{3}{2} =$

5.-

a) $\frac{3}{5} : \left(\frac{1}{10} - \frac{2}{5}\right) =$

b) $\left(\frac{3}{4} + 1\right) \cdot 2 =$

c) $\frac{4}{5} - \frac{1}{10} \cdot \left(\frac{2}{5} - \frac{7}{10}\right) =$

d) $\left(2 - \frac{3}{5}\right) \cdot \left(2 + \frac{7}{9}\right)$

e) $\frac{2}{3} \cdot \left(\frac{1}{2} - \frac{1}{5}\right) - \left(1 - \frac{1}{2}\right)$

6.- Calcula el valor de estas expresiones simplificando las fracciones antes de operar:

a) $\frac{18}{27} + \frac{6}{24} - \frac{20}{50} =$

b) $\frac{18}{36} \cdot \frac{75}{100} - \frac{14}{7} =$

c) $\left(\frac{10}{100} + \frac{75}{125}\right) : \left(\frac{40}{20} - \frac{54}{42}\right) =$

7.-

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

b) $3 - \left[1 - \left(\frac{3}{4} + \frac{1}{5}\right)\right] - \left(\frac{1}{10} + \frac{11}{20}\right) =$

c) $\left[\frac{4}{3}-\left(\frac{5}{3}+1\right)\right]:\frac{1}{6}=$

d) $3\cdot\left[\left(\frac{2}{5}+1-\frac{3}{10}\right)\cdot 5-\frac{1}{5}\cdot\frac{2}{3}\right]=$

8.-

a) $\dfrac{\frac{3}{4}+\frac{2}{5}}{\frac{23}{10}}=$

b) $\dfrac{3+\frac{2}{3}}{1-\frac{2}{3}}=$

c) $\dfrac{\frac{2}{5}\cdot 6}{\frac{1}{2}\cdot\frac{3}{4}}=$

9.-

a) $\dfrac{\frac{3}{4}+2\cdot\frac{5}{3}}{\frac{1}{2}-\frac{1}{3}}=$

b) $\dfrac{2-\left(\frac{1}{3}+\frac{5}{6}\right)}{\frac{1}{6}+\frac{3}{2}}=$

c) $\dfrac{\left(\frac{1}{2}+\frac{3}{4}\right)\cdot\left(2-\frac{2}{3}\right)}{\left(\frac{3}{4}+1\right)\cdot\frac{1}{7}}=$

d) $\dfrac{\left(\frac{1}{3}+3\right)\cdot\left(1-\frac{2}{5}\right)}{\frac{1}{6}+\frac{3}{2}}=$