

Nicolas

$$7/10 + 5/10 + 2/10 = \frac{14}{10}$$

$$84/13 + 18/13 + 1/13 = \frac{103}{13}$$

$$10/4 + 84/4 + 7/4 + 3/4 = \frac{104}{4}$$

$$36/5 - 15/5 = \frac{21}{5}$$

$$17/9 - 3/9 = \frac{14}{9}$$

$$53/83 + 1/3 - 11/3 = \frac{3}{3}$$

Fracciones equivalentes

$$\frac{8}{3} \quad \frac{6}{8}$$

$$\frac{18}{24} \quad \frac{64}{24}$$

$$\begin{array}{l} 3 \quad 8 \quad 2 \\ 3 \quad 4 \quad 2 \\ 3 \quad 2 \quad 2 \\ 3 \quad 1 \quad 3 \\ 1 \end{array} \left. \begin{array}{l} \\ \\ \\ \end{array} \right\} \begin{array}{l} 4 \times 2 \\ 8 \times 3 \\ 24 \end{array}$$

tabla

Halla las fracciones equivalentes a las dadas, que tengan el mismo denominador

$$8/3 \text{ y } 6/8$$

$$1/6 \text{ y } 2/3$$

$$4/6 \text{ y } 3/2$$

$$1/8 \text{ y } 2/4$$

SOLUCIÓN

$$\begin{array}{r} 4 \\ \hline 6 \end{array} \quad \begin{array}{r} 2 \\ \hline 3 \end{array}$$

$$12 \quad 10$$

$$15 \quad 15$$

$$\begin{array}{r} 5 \quad 3 \quad 3 \\ 5 \quad 1 \quad 5 \\ 1 \end{array} \Bigg) \quad 3 \times 5 = 15$$

$$\begin{array}{r} 4 \\ \hline 6 \end{array} \quad \begin{array}{r} 3 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 8 \\ \hline 6 \end{array} \quad \begin{array}{r} 18 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 5 \quad 2 \quad 2 \\ 3 \quad 1 \quad 3 \end{array} \Bigg) \quad 2 \times 3 = 6$$

$$\begin{array}{r} 1 \\ \hline 8 \end{array} \quad \begin{array}{r} 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 4 \\ \hline 8 \end{array} \quad \begin{array}{r} 16 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 8 \quad 4 \quad 2 \\ 4 \quad 2 \quad 2 \\ 2 \quad 1 \quad 2 \\ 1 \quad 1 \end{array} \Bigg) \quad 2 \times 2 = 4 \times 2 = 8$$

Actividad

1 suma los siguientes fracciones utilizando el método de productos cruzados

A $\frac{1}{3} + \frac{1}{4}$

B $\frac{3}{5} + \frac{5}{6}$

C $\frac{3}{4} + \frac{1}{8}$

D $\frac{5}{4} + \frac{1}{2}$

2 Haz las siguientes adiciones buscando el mínimo común denominador

A $\frac{5}{4} + \frac{3}{6}$

B $\frac{3}{5} + \frac{1}{15}$

C $\frac{3}{8} + \frac{5}{6}$

D $\frac{5}{12} + \frac{7}{15}$

3 Haz las siguientes sustracciones buscando el mínimo común denominador y grafica el resultado

E $\frac{5}{4} - \frac{1}{6}$

H $\frac{7}{9} - \frac{1}{6}$

F $\frac{7}{8} - \frac{3}{4}$

I $\frac{6}{12} - \frac{1}{3}$

G $\frac{11}{10} - \frac{3}{5}$

1.)

Solution

A.

$$\frac{1}{3} + \frac{1}{4} = \frac{4+3}{12} = \frac{7}{12}$$

B. $\frac{3}{5} + \frac{5}{6} = \frac{18+25}{30} = \frac{43}{30}$

C. $\frac{3}{4} + \frac{1}{8} = \frac{24+4}{32} = \frac{28}{32}$

D. $\frac{5}{4} + \frac{1}{2} = \frac{10+4}{8} = \frac{14}{8}$

2.)

A. $\frac{5}{4} + \frac{3}{6} = \frac{5 \times 3}{4 \times 3} + \frac{3 \times 2}{6 \times 2} = \frac{15}{12} + \frac{6}{12} = \frac{21}{12}$

$$\begin{array}{r} 4 \quad 6 \quad 2 \\ 2 \quad 3 \quad 2 \\ 1 \quad 3 \quad 0 \\ 1 \end{array}$$

$$\frac{21}{12} = \frac{7}{4}$$

B.

$$\frac{3}{5} + \frac{1}{15} = \frac{3 \times 3}{5 \times 3} = \frac{9}{15} + \frac{1}{15} = \frac{10}{15} \div 5 = \frac{2}{3}$$

$$\begin{array}{r} 5 \quad 15 \mid 3 \\ 5 \quad 5 \mid 5 \\ 1 \quad 1 \mid \end{array} > 15$$

C.

$$\frac{3}{8} + \frac{5}{6} = \frac{3 \times 3}{8 \times 3} + \frac{5 \times 4}{6 \times 4} = \frac{9}{24} + \frac{20}{24} = \frac{29}{24}$$

$$\begin{array}{r} 8 \quad 62 \\ 4 \quad 32 \\ 2 \quad 32 \\ 1 \quad 23 \\ 1 \end{array} > 24$$

D.

$$\frac{5}{12} + \frac{7}{18} = \frac{5 \times 3}{12 \times 3} + \frac{7 \times 4}{18 \times 4} = \frac{25}{60} + \frac{28}{60} = \frac{53}{60}$$

$$\begin{array}{r} 12 \quad 15 \mid 2 \\ 6 \quad 15 \mid 2 \\ 3 \quad 15 \mid 3 \\ 1 \quad 15 \mid 3 \\ \quad 5 \mid 5 \\ \quad 1 \mid \end{array} \times > 60$$

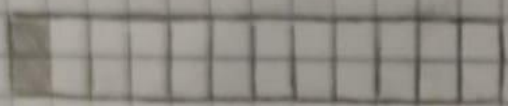
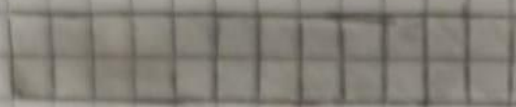
3

E.

$$\frac{5}{4} - \frac{1}{6} = \frac{5 \times 3}{4 \times 3} - \frac{1 \times 2}{6 \times 2} = \frac{15}{12} - \frac{2}{12} = \frac{13}{12} = 1 \frac{1}{12}$$

4 8 12

$$\frac{1 \cdot 12 + 1}{12}$$

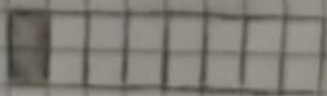


$$\begin{array}{r} 4 \ 6 \ 2 \\ 2 \ 3 \ 2 \\ 1 \ 2 \ 3 \\ \hline 11 \end{array}$$

F.

$$\frac{7}{8} - \frac{3}{4} = \frac{7 \times 1}{8 \times 1} - \frac{3 \times 2}{4 \times 2} = \frac{7}{8} - \frac{6}{8} = \frac{1}{8}$$

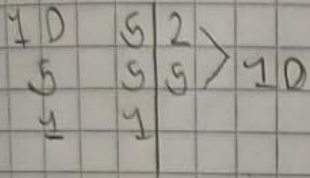
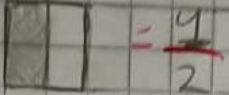
$$\begin{array}{r} 10 \ 4 \ 2 \\ 4 \ 2 \ 2 \\ 2 \ 1 \ 2 \\ \hline 8 \end{array}$$



6.

$$\frac{11}{10} - \frac{3}{5}$$

$$\frac{11 \times 2}{10 \times 2} - \frac{3 \times 2}{5 \times 2} = \frac{11}{10} - \frac{6}{10} = \frac{5}{10} = \frac{1}{2}$$



H

$$\frac{7}{9} - \frac{1}{6}$$

$$\frac{7 \times 2}{9 \times 2} - \frac{1 \times 3}{6 \times 3} = \frac{14}{18} - \frac{3}{18} = \frac{11}{18}$$



I

$$\frac{6}{12} - \frac{1}{3}$$

$$\frac{6 \times 1}{12 \times 1} - \frac{1 \times 4}{3 \times 4} = \frac{6}{12} - \frac{4}{12} = \frac{2}{12} = \frac{1}{6}$$

